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Water quality in Chesapeake Bay : Virginia portion, water year 1990 : a report to the Virginia Water Control Board

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A detailed map of the Chesapeake Bay region, showing the bay's complex shoreline, major rivers like the Potomac and York, and surrounding states and cities. The map includes a coordinate grid with latitude and longitude markings. A compass rose is located in the upper left corner, and a scale bar for nautical miles is at the bottom left.

WATER QUALITY IN CHESAPEAKE BAY VIRGINIA PORTION

Water Year 1990

By
**Kevin Curling
and
Bruce Neilson**

**A Report to
The Virginia Water Control Board**

Data Report No. 37

**Virginia Institute of Marine Science
School of Marine Science
The College of William and Mary in Virginia
Gloucester Point, Virginia 23062**

October, 1991

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Total Nitrogen	76
Particulate Nitrogen	83
Total Dissolved Nitrogen	90
Ammonia	97
Nitrite + Nitrate	104
Nitrite	111
Dissolved Silica	118
Dissolved Organic Carbon	125
Particulate Carbon	132
Total Suspended Solids	139
pH	146

INTRODUCTION

In the summer of 1984 a comprehensive water quality monitoring program was initiated for the Chesapeake Bay system. Funding for monitoring of the main stem of Chesapeake Bay was provided by the U.S. Environmental Protection Agency, while monitoring of the tributaries to the bay was supported by the states of Virginia and Maryland, and the District of Columbia. This monitoring program had three goals:

- (1) characterization of water quality conditions,
- (2) detection of trends in water quality,
- (3) creation of a data base that would allow scientists to propose hypotheses regarding the processes controlling water quality.

The purpose of this report is to characterize water quality conditions during the 1990 water year, October 1989 through September 1990. For the most part, the information is provided in graphical format. Only data for the Virginia portion of Chesapeake Bay is included. No data analysis or interpretation is included, since this is the stated purpose of a number of other reports.

This report will be useful to both scientists and managers who need ready access to some portion of the data on a regular basis. With this report it is possible to quickly examine seasonal patterns, compare conditions at two stations, or see if surface and bottom conditions differed significantly. Trends, inter-annual variations and other important considerations are treated in other reports.

DESCRIPTION OF THE MONITORING PROGRAM

The Chesapeake Bay monitoring program includes some fifty stations within the bay proper or at the confluence of a tributary and the bay. Twenty-eight of those stations are located in Virginia. The responsibility for the monitoring in Virginia is shared between the Virginia Institute of Marine Science (VIMS) and Old Dominion University (ODU). VIMS samples the mid-portion of the bay, Mobjack Bay, and at the mouths of the Great Wicomico, Rappahannock, Piankiatank, York, Poquoson, and Back Rivers. ODU samples the lower portion of the bay and at the mouth of the James River. Station locations and depths are listed in Table 1, and locations are shown in Figure 1.

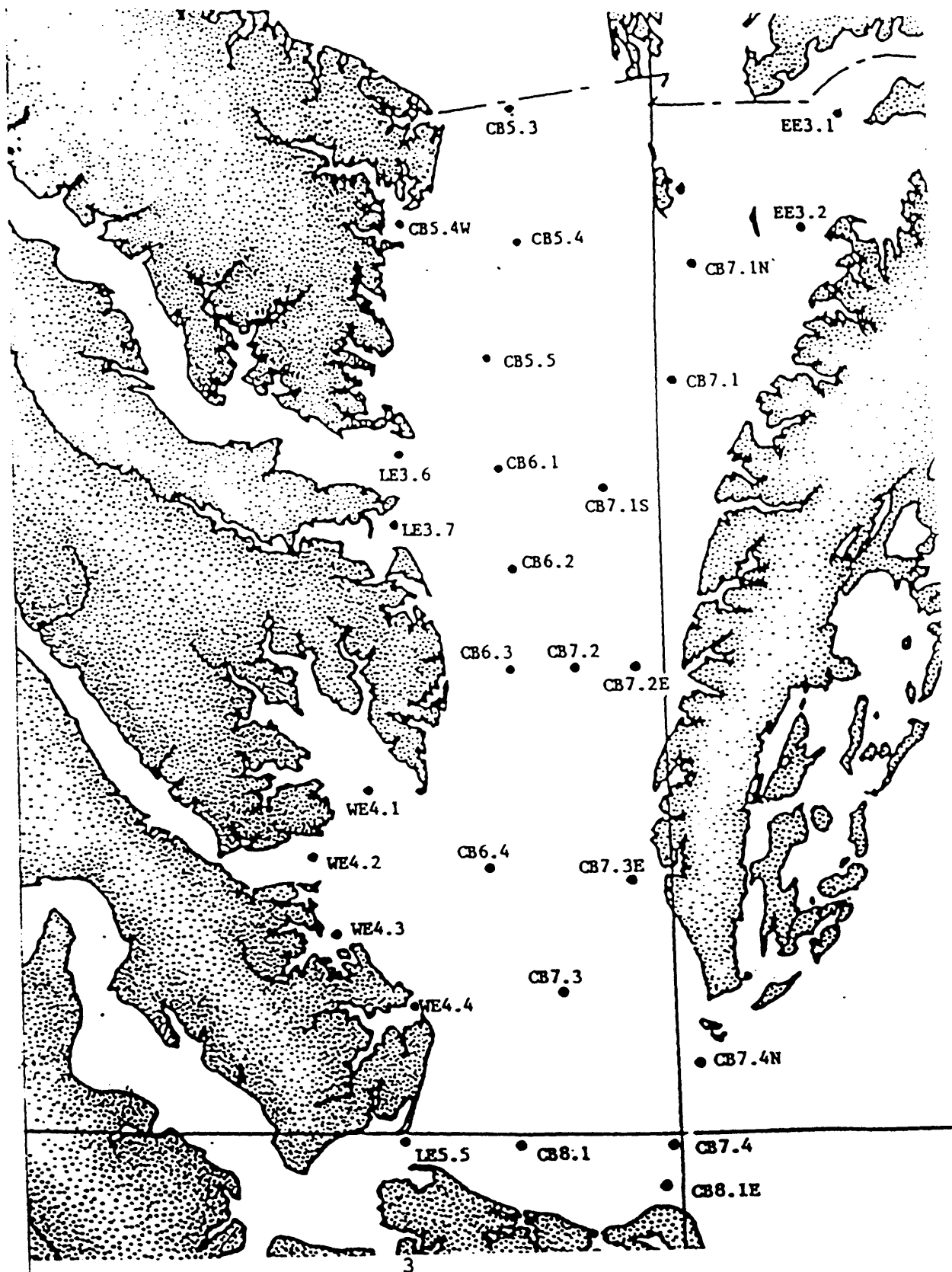
Table 1. Location of Chesapeake Bay Water Quality Monitoring Stations

<u>Sampled by VIMS</u>			
<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Depth (M)</u>
CB5.3 **	37 57.7	76 10.0	23
CB5.4	37 48.0	76 10.5	33
CB5.5	37 41.5	76 11.4	20
CB6.1	37 35.3	76 9.8	13
CB6.2	37 29.2	76 9.4	11
CB6.3	37 24.7	76 9.6	12
EE3.1	37 54.5	75 47.5	4
EE3.2	37 47.6	75 50.6	26
CB7.1N	37 46.5	75 58.5	32
CB7.1	37 41.0	75 59.4	25
CB7.1S	37 34.9	76 3.5	16
CB5.4W	37 48.8	76 17.7	5
CB7.2	37 24.7	76 4.8	23
CB7.2E	37 24.7	76 1.5	14
LE3.6	37 35.8	76 17.1	10
LE3.7	37 31.8	76 18.4	8
WE4.1	37 18.7	76 20.8	6
WE4.2	37 14.5	76 23.2	15
WE4.3	37 10.6	76 22.4	6
WE4.4	37 6.6	76 17.6	8

** Station CB5.3 was dropped from the sampling schedule in May, 1990.

<u>Sampled by ODU</u>			
<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Depth (M)</u>
CB6.4	37 14.2	76 12.5	11
CB7.3	37 7.0	76 7.5	14
CB7.4	36 59.6	76 0.6	14
CB7.4N	37 3.5	75 58.4	13
CB8.1E	36 56.7	76 1.5	18
CB8.1	36 59.3	76 10.1	9
CB7.3E	37 13.7	76 3.3	20
LE5.5	36 59.8	76 18.2	21

Figure 1. Map of Monitoring Stations



This report covers the 1990 water year (October 1989 through September 1990). Sampling occurs twice per month during the warmer part of the year and once per month during colder months. During the 1990 water year, the once per month sampling occurred in October 1989 through March 1990 (see Table 2). All of the institutions attempt to complete the sampling at all bay and tributary stations within a three day window, typically Monday through Wednesday of the chosen week. These sampling periods are determined in advance with scheduling dictated in large part by the availability of research vessels. The time of sampling within the three day period is determined by each institution, with weather conditions frequently playing a major role in timing. No attempt is made to schedule the sampling at any lunar phase or to sample individual stations at particular tidal phases. Note that the twice per month frequency means that roughly the same stage of the lunar cycle will be captured, except when there is a three week interval, and the sampling switches to a different phase of the lunar cycle.

At each station, a standard protocol for sampling is followed. (See the Field Procedures Manual and the Instrument Calibration Manual for details.) Observations on sea state, weather conditions, and water clarity (Secchi depth reading) are made at each station when possible. The physical setting is monitored using continuous profiling instruments. Water temperature, conductivity, dissolved oxygen (DO), and pH readings are recorded at one meter intervals beginning at one meter below the surface (the surface sample) and continuing until one meter above the bottom (the bottom sample). At stations greater than 15 meters deep, measurements are recorded at one meter intervals for the first 15 meters, and two meters thereafter.

Water samples are collected at each station to determine water quality conditions. Each sample is analyzed for nutrients (carbon, nitrogen, phosphorus, silica), chlorophyll, and suspended solids. The complete list of analyses is given in Table 3. (See the Laboratory Procedures Manual for further details on nutrient analyses.)

Samples are collected one meter below the surface and one meter above the bottom at all stations. Additional samples are collected at the deep "main stem" stations - CB5.3, CB5.4, CB5.5, CB6.1, CB6.2, CB6.3, CB6.4, CB7.3, and CB7.4. If the water column shows little density stratification, the additional samples are collected at 1/3rd and 2/3rd depths. If there is appreciable stratification, the samples are collected one meter above

and one meter below the pycnocline, the layer within which density changes rapidly. The precise depths for sample collection are determined using the algorithm in Table 4.

Table 2. Date when each station was sampled during each month of the 1990 water year.

	Oct. 89	Nov. 89	Dec. 89	Jan. 90	Feb. 90	March 90
CB5.3	10	14	11	9	6	5
CB5.4	10	13	11	9	5	5
CB5.5	10	13	11	9	5	5
CB6.1	9	13	12	9	5	6
CB6.2	9	13	12	8	5	6
CB6.3	9	13	12	8	6	6
CB6.4	10	13	14	9	6	5
CB7.3	10	13	14	9	6	5
CB7.4	10	13	14	9	6	5
CB7.4N	10	13	14	9	6	5
CB8.1E	10	13	14	9	6	5
CB8.1	10	13	14	9	6	5
EE3.1	9	14	11	8	6	6
EE3.2	9	14	11	8	6	6
CB7.1N	10	14	11	8	6	5
CB7.1	9	14	11	8	6	6
CB7.1S	9	13	12	8	6	6
CB5.4W	10	14	11	9	5	5
CB7.2	10	13	12	8	6	6
CB7.2E	10	13	12	8	6	6
CB7.3E	10	13	14	9	6	5
LE3.6	9	13	12	9	5	6
LE3.7	9	13	12	9	5	6
WE4.1	10	13	12	8	6	5
WE4.2	9	13	11	8	5	5
WE4.3	10	13	12	8	6	5
WE4.4	10	13	12	9	6	5
LE5.5	10	13	14	9	6	5

Table 2 (cont.). Date when each station was sampled during each month of the 1990 water year.

	April 90	May 90	June 90	July 90	Aug. 90	Sep. 90
CB5.3	9, 16	-	-	-	-	-
CB5.4	9, 16	14, 29	12, 25	16, 31	13, 27	10, 24
CB5.5	10, 17	14, 29	12, 25	16, 31	13, 27	10, 24
CB6.1	10, 17	14, 29	12, 25	16, 31	13, 27	10, 24
CB6.2	12, 17	14, 29	13, 25	16, 31	13, 27	10, 24
CB6.3	12, 16	14, 29	11, 25	16, 31	13, 27	10, 25
CB6.4	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24
CB7.3	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24
CB7.4	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24
CB7.4N	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24
CB8.1E	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24
CB8.1	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24
EE3.1	9, 16	15, 30	12, 26	17, -	1, 15, 28	11, 25
EE3.2	9, 16	15, 30	12, 26	16, -	1, 15, 28	11, 25
CB7.1N	9, 16	14, 30	13, 25	16, -	1, 15, 27	11, 24
CB7.1	9, 16	15, 31	13, 26	17, -	1, 15, 28	11, 25
CB7.1S	12, 17	15, 31	13, 26	17, -	1, 15, 28	11, 25
CB5.4W	9, 17	14, 29	12, 25	16, 31	13, 27	10, 24
CB7.2	12, 16	15, 31	13, 26	17, -	1, 15, 28	11, 25
CB7.2E	12, 16	15, 31	13, 26	17, -	1, 15, 28	11, 25
CB7.3E	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24
LE3.6	10, 17	15, 31	12, 25	16, 31	13, 27	10, 24
LE3.7	12, 17	15, 31	11, 25	16, 31	13, 27	10, 24
WE4.1	12, 20	14, 29	11, 25	16, 31	14, 28	11, 27
WE4.2	13, 16	14, 29	11, 25	16, 31	13, 27	10, 24
WE4.3	13, 17	14, -	1, 12, 25	16, 31	14, 28	11, 27
WE4.4	13, 17	15, -	1, 12, 25	16, 31	14, 28	11, 27
LE5.5	9, 16	16, 31	13, 26	17, 30	14, 28	11, 24

Table 3. Water Quality Analyses

Carbon
Particulate carbon
Dissolved organic carbon
Nitrogen
Particulate nitrogen
Total dissolved nitrogen
Ammonia-nitrogen
Nitrite-nitrogen
Nitrate+nitrite-nitrogen
Phosphorus
Particulate phosphorus
Total dissolved phosphorus
Ortho-phosphate
Silica
Dissolved silica
Chlorophyll-A
Total suspended solids

Table 4. Algorithm to determine pycnocline location and sampling depths

$$\frac{(\text{Cond. at Bottom} - \text{Cond. at Surface})}{(\text{Total Depth} - 0.5)} \times 2 = \text{Threshold value}$$

where cond. = conductivity.

If the threshold value is less than 0.5, then samples are taken at one-third and two-thirds depths.

If the threshold value is greater than 0.5, then a sample is taken one meter above the first occurrence (proceeding from the surface to the bottom) where the change in conductivity between depths is greater than the threshold value and another sample is taken one meter below the last occurrence where the change in conductivity between depths is greater than the threshold value.

RESULTS

The monitoring results are presented in tables and figures in the appendices and are arranged by water quality analysis. For each measure of water quality, the maximum, mean, and minimum values observed at each station during the year are listed in the table. These statistics are given for both the surface and bottom sampling points. These tables then show the range of values encountered during the year, the mean conditions, and they also show whether there are surface to bottom differences.

Following the table, the data for each station has been plotted, so that the seasonal cycle can be seen. When there were two cruises during a month, the data from the two cruises have been combined. The surface and bottom values are presently independently, along with the monthly maximum, minimum, and mean concentrations. The maximum and minimum values at the surface are presented as "whiskers" and the maximum and minimum values at the bottom are presented as "boxes".

Only data for the surface and bottom samples have been tabulated and plotted; no pycnocline results are included. This is noted so there is no confusion with surface mixed layer or bottom mixed layer values, which would be determined by averaging the surface and above pycnocline results, or the below pycnocline and bottom results.

Perhaps the single most important measure of water quality is the dissolved oxygen (DO) concentration. For estuarine waters in Virginia, state water quality standards specify that the daily average DO concentration should be 5.0 mg/l or greater and that no observation should be below 4.0 mg/l. The portion of the observations below 5 mg/l and below 4 mg/l have been calculated for each station and are included in the DO section.

In addition to the water quality parameters measured directly, several other parameters have been calculated and plotted. Salinity is determined using water temperature and conductivity observations and the UNESCO Equations of State (UNESCO, 1983). Total phosphorus and total nitrogen have been calculated by summing the values for the particulate and total dissolved fractions. Chlorophyll-a has been calculated using a trichromatic formulate (ASTM method D 3731-79).

REFERENCES

Field Procedures Manual. 1989. Data Acquisition and Instrumentation Group, Physical Oceanography Division, VIMS.

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Laboratory Procedures Manual. 1989. Nutrient Analysis Laboratory, Physical Oceanography Division, VIMS.

ASTM D 3731-79: Standard Practices for Measurement of Chlorophyll Content of Algae in Surface Waters. In: 1979 Annual Book of ASTM Standards, Part 31, Water. American Society for Testing and Materials, Philadelphia, Pennsylvania.

UNESCO, 1983. UNESCO Technical Papers in Marine Science 44. Algorithms for Computation of Fundamental Properties of Seawater.

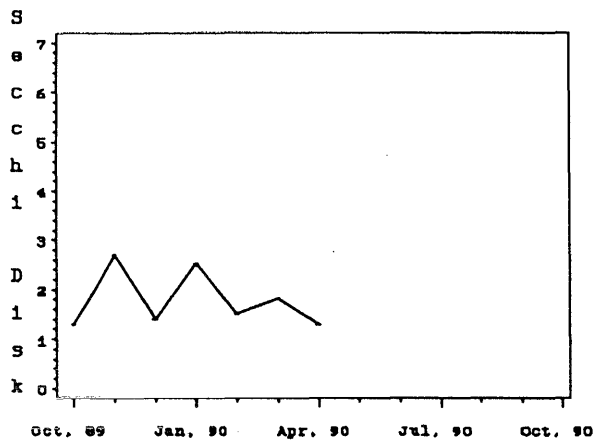
SECCHI DISK

Values reported as meters.

Secchi Disk
October, 1989 - September, 1990

Station	Secchi Disk (M)		
	Max	Mean	Min
CB5.3.....	2.70	1.72	1.30
CB5.4.....	2.80	1.91	1.30
CB5.5.....	2.50	1.78	1.20
CB6.1.....	2.50	1.67	1.10
CB6.2.....	2.50	1.62	1.00
CB6.3.....	2.00	1.58	0.90
CB6.4.....	4.20	2.01	1.20
CB7.3.....	5.20	2.37	1.10
CB7.4.....	6.30	3.21	1.10
CB7.4N.....	4.80	2.82	1.30
CB8.1E.....	4.70	2.12	1.00
CB8.1.....	4.10	2.15	1.20
EE3.1.....	1.70	1.02	0.60
EE3.2.....	2.70	1.38	0.80
CB7.1N.....	2.60	1.64	1.10
CB7.1.....	3.10	1.84	1.30
CB7.1S.....	3.60	1.91	1.30
CB5.4W.....	1.90	1.37	0.80
CB7.2.....	3.60	1.94	1.20
CB7.2E.....	3.30	1.91	1.10
CB7.3E.....	3.40	2.09	1.20
LE3.6.....	3.20	1.67	1.20
LE3.7.....	2.70	1.57	1.00
WE4.1.....	2.20	1.46	0.80
WE4.2.....	2.70	1.64	1.10
WE4.3.....	2.30	1.33	0.60
WE4.4.....	1.70	1.14	0.70
LE5.5.....	3.30	1.65	1.10

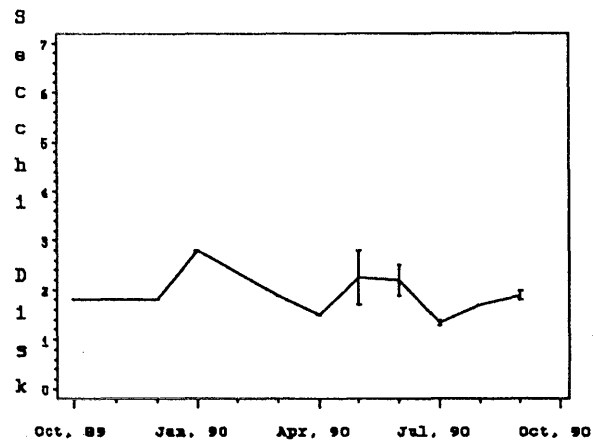
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Month

— Surface

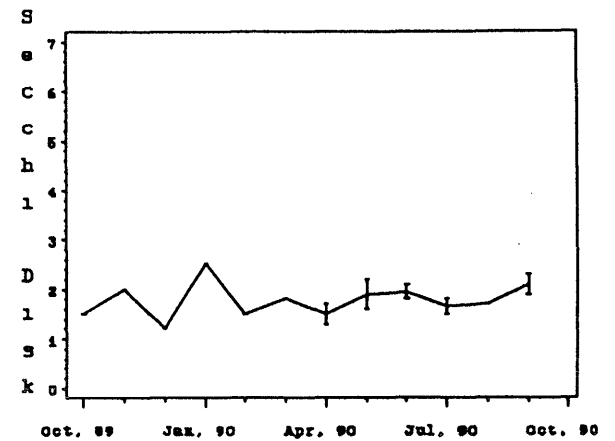
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Month

— Surface

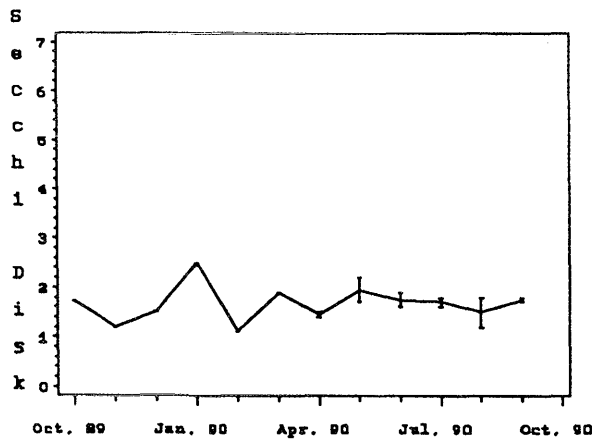
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Month

— Surface

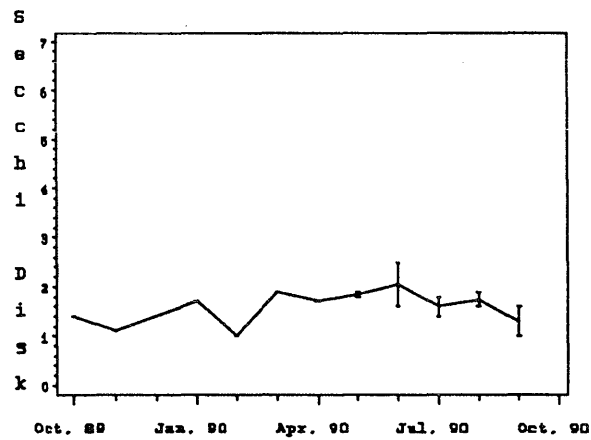
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Month

— Surface

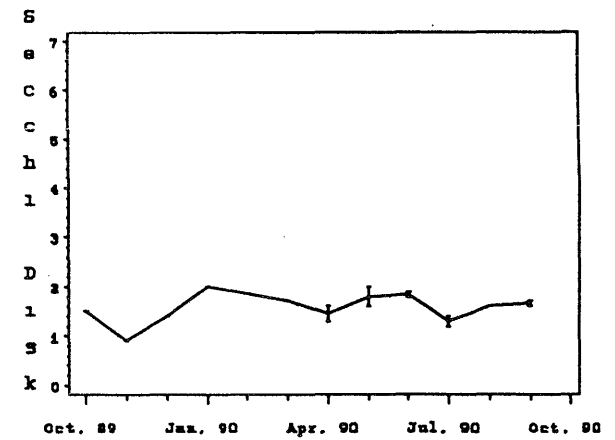
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Month

— Surface

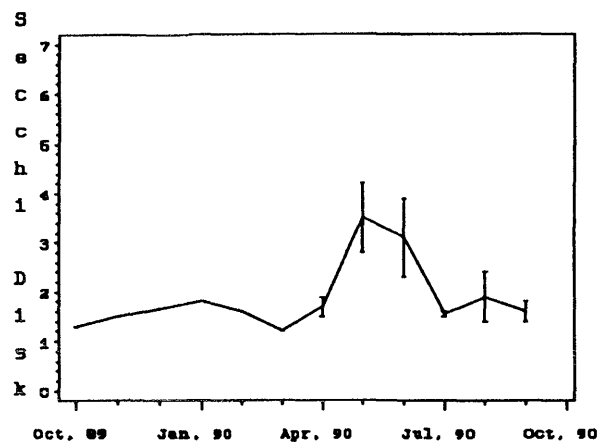
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Month

— Surface

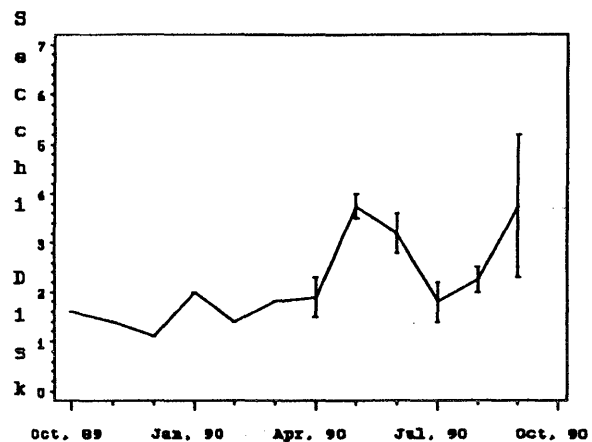
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Month

— Surface

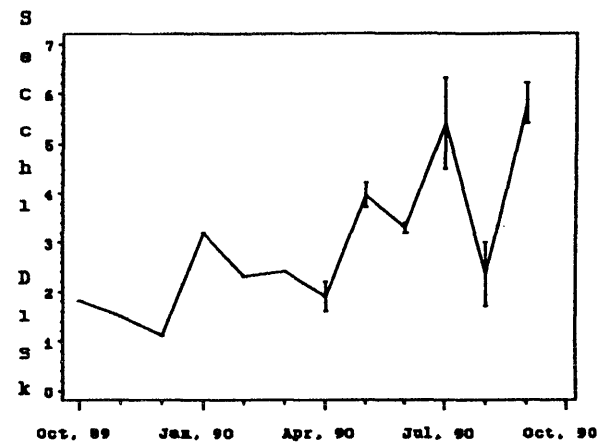
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Month

— Surface

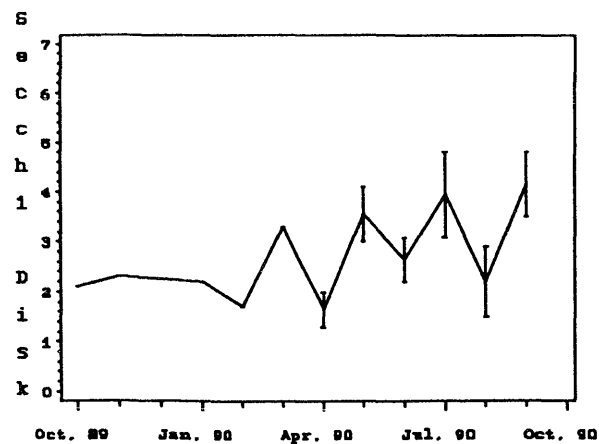
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Month

— Surface

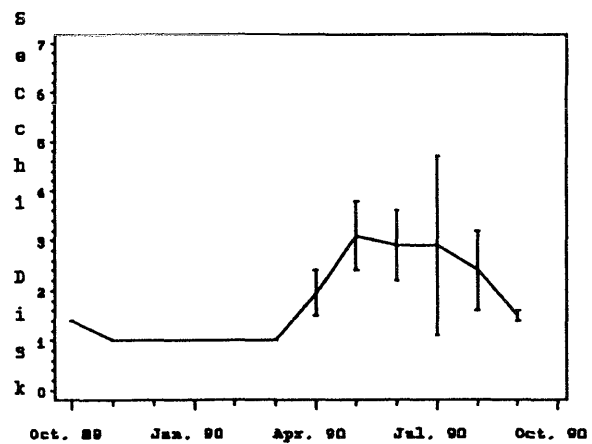
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Month

— Surface

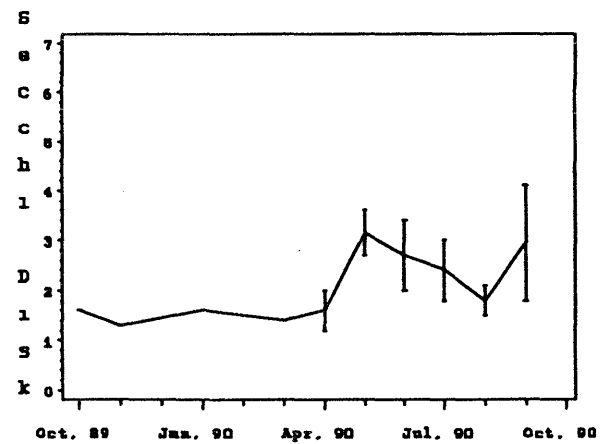
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Month

— Surface

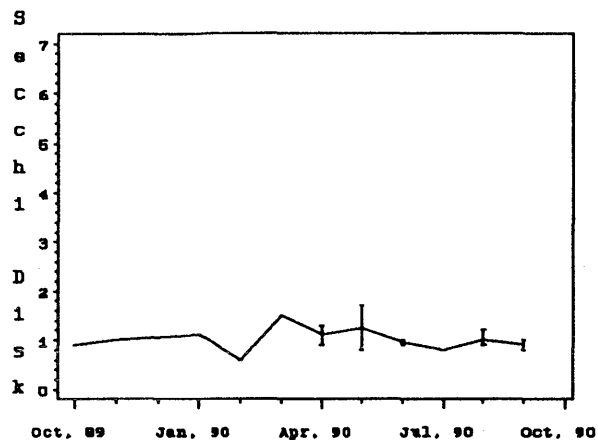
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Month

— Surface

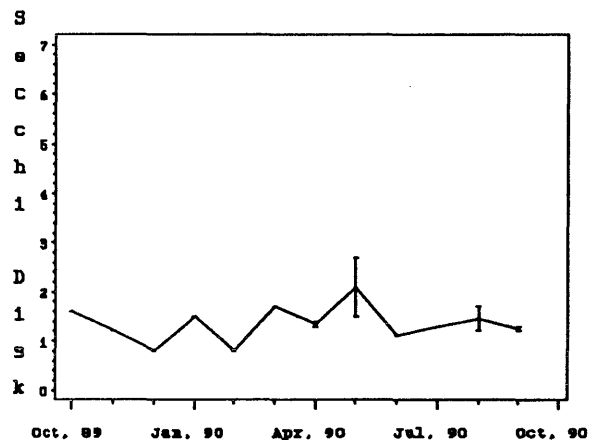
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Month

— Surface

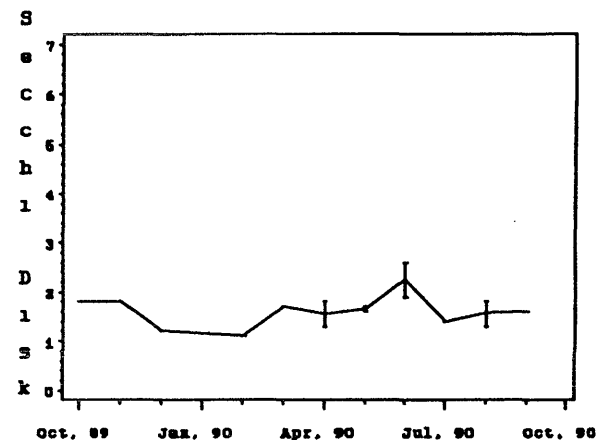
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Month

— Surface

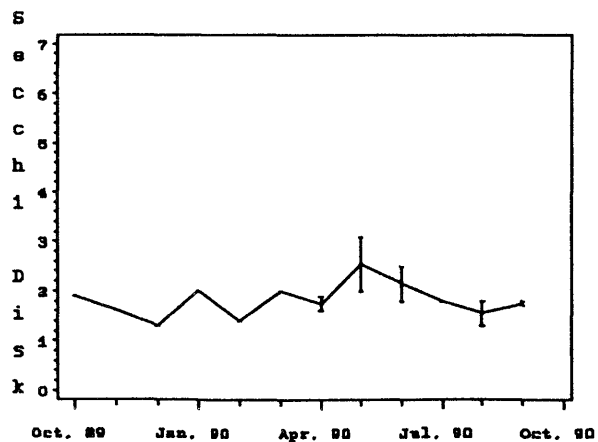
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Month

— Surface

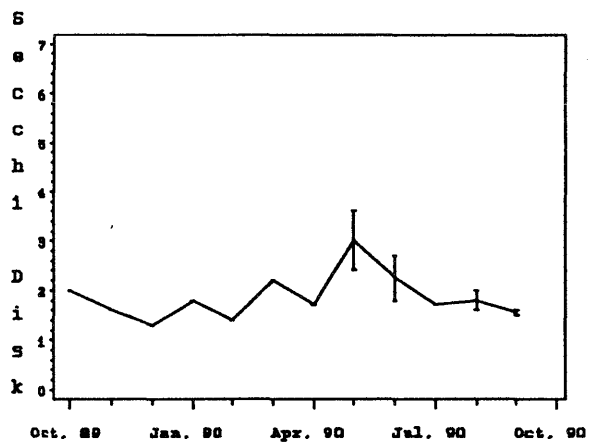
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Month

— Surface

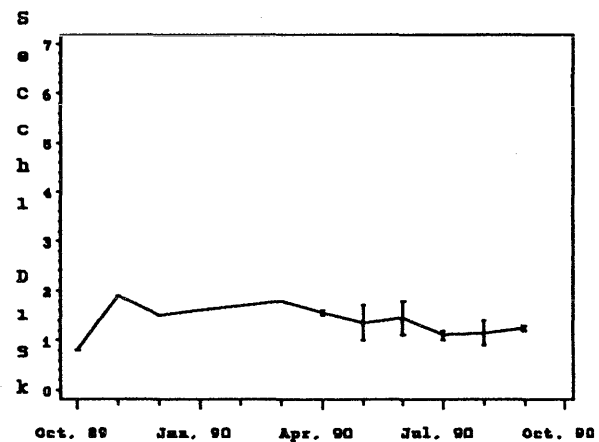
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Month

— Surface

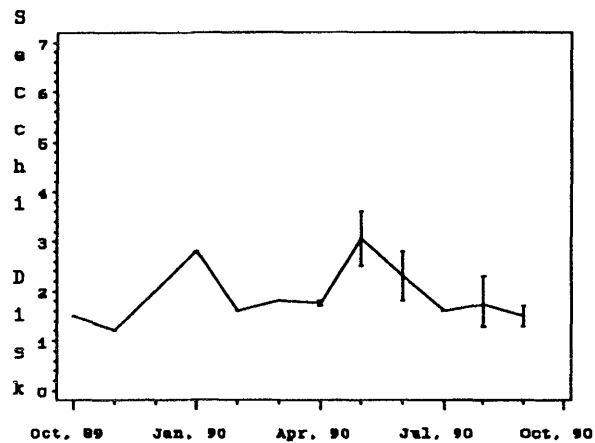
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Month

— Surface

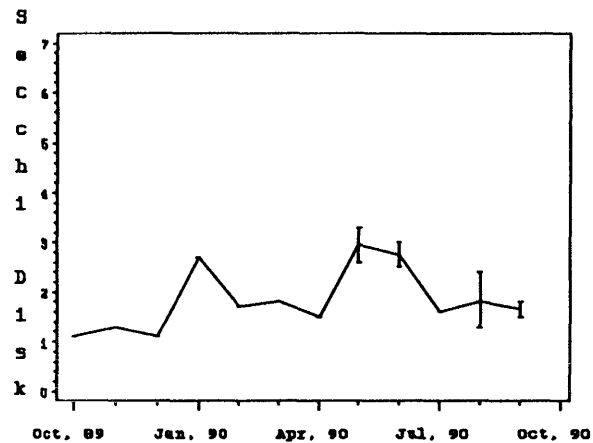
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Month

— Surface

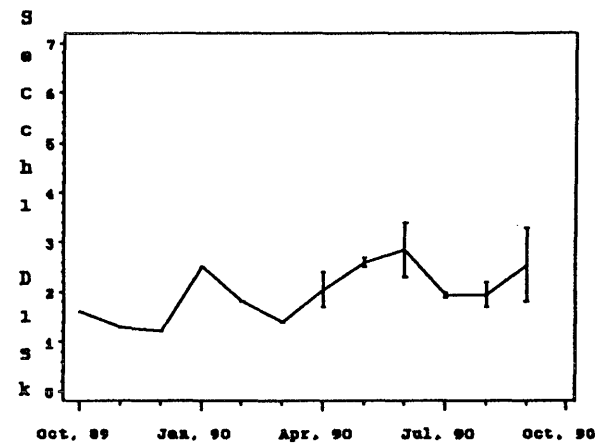
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Month

— Surface

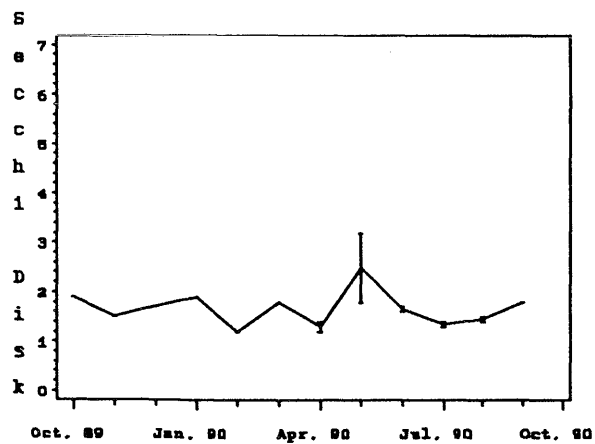
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Month

— Surface

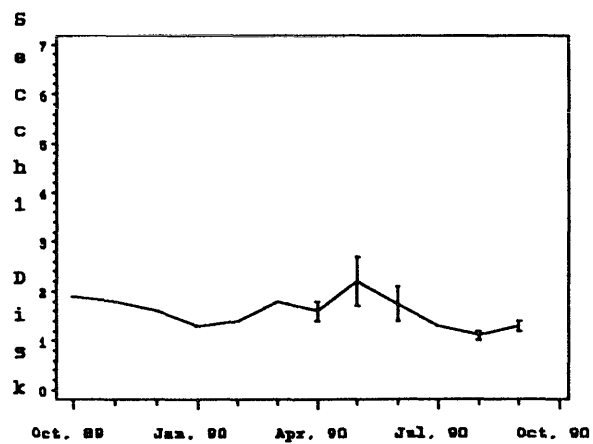
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Month

— Surface

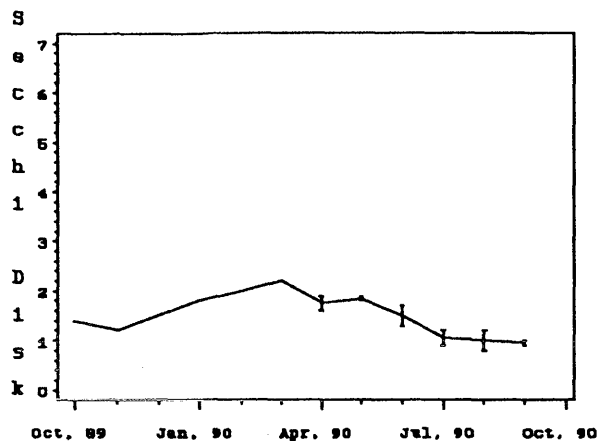
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Month

— Surface

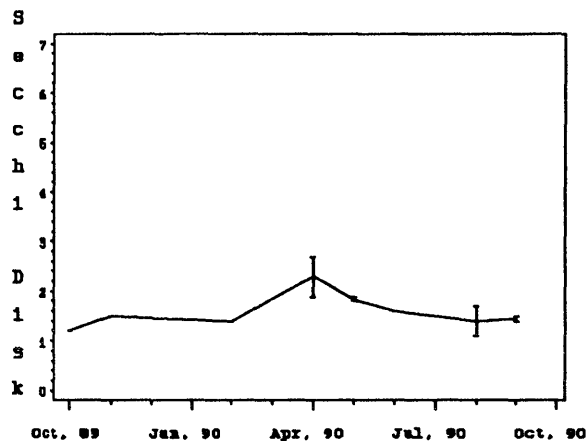
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Month

— Surface

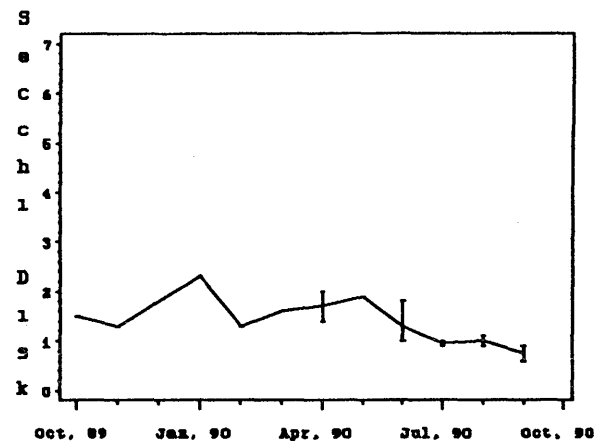
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Month

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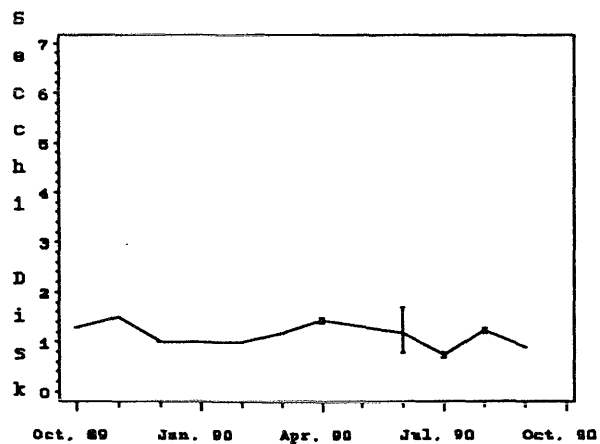
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Month

— Surface

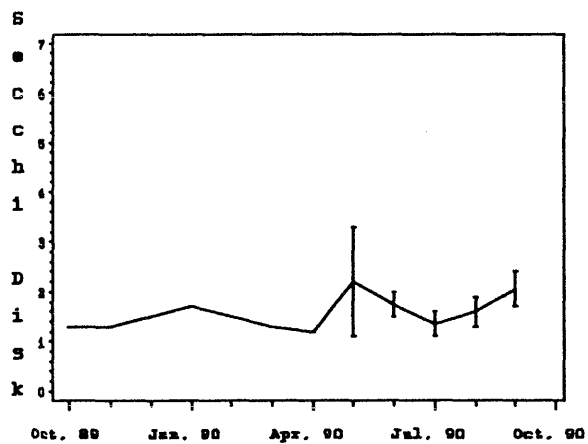
Station Id=WE4.4



Month

— Surface

Station Id=LE5.5



Month

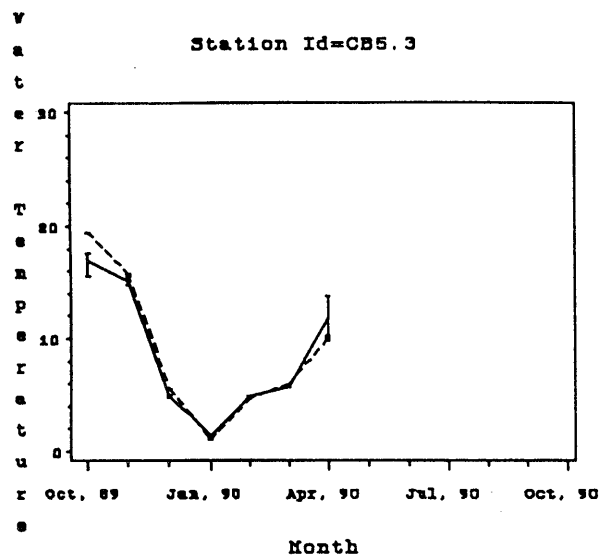
— Surface

WATER TEMPERATURE

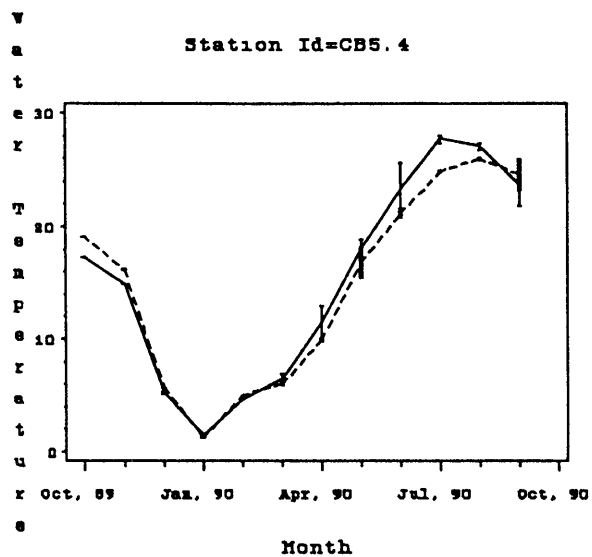
Values reported as degrees Centigrade.

Water Temperature
October, 1989 - September, 1990

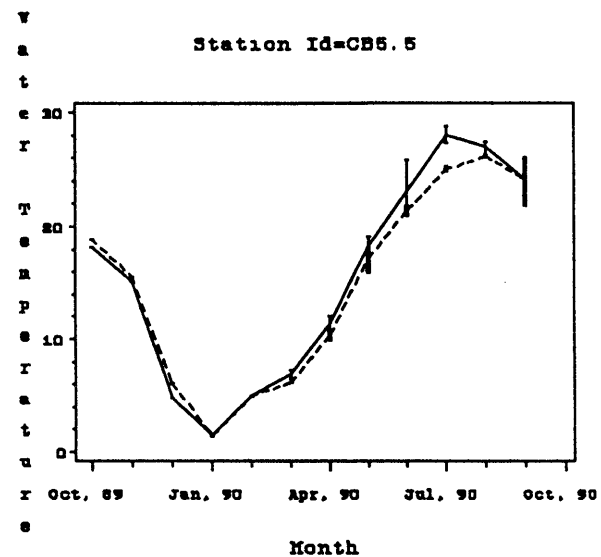
Station	Water Temperature (°C)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	17.55	9.20	1.30	19.48	9.04	1.01
CB5.4.....	27.93	17.57	1.38	26.01	16.64	1.27
CB5.5.....	28.69	17.62	1.35	26.20	16.72	1.43
CB6.1.....	29.19	17.72	1.52	26.18	16.82	1.58
CB6.2.....	27.40	17.35	1.63	26.27	16.83	1.58
CB6.3.....	27.76	17.75	1.59	26.26	16.93	1.58
CB6.4.....	27.54	17.31	1.99	26.58	16.36	2.75
CB7.3.....	27.97	17.86	2.39	26.05	16.68	3.29
CB7.4.....	26.32	17.35	3.83	25.66	16.05	3.95
CB7.4N.....	26.91	17.37	4.27	26.73	17.21	3.68
CB8.1E.....	26.21	17.24	3.53	25.25	16.15	4.08
CB8.1.....	26.73	17.30	2.43	25.43	16.79	2.64
EE3.1.....	27.94	17.54	1.97	27.94	17.05	1.96
EE3.2.....	27.50	17.02	1.68	27.44	16.80	1.20
CB7.1N.....	27.44	17.06	1.49	26.94	16.87	1.13
CB7.1.....	27.74	17.28	1.27	26.46	17.23	1.27
CB7.1S.....	28.07	18.04	1.48	26.39	16.89	1.47
CB5.4W.....	28.53	17.30	1.64	28.53	17.38	1.70
CB7.2.....	28.34	18.12	1.56	26.49	17.02	2.47
CB7.2E.....	28.11	17.50	1.89	26.65	17.14	1.80
CB7.3E.....	27.34	17.52	1.73	26.76	16.26	3.35
LE3.6.....	28.21	17.95	2.07	27.30	17.24	1.81
LE3.7.....	28.23	18.47	2.83	27.85	17.69	2.40
WE4.1.....	28.80	17.85	2.20	27.82	17.62	2.42
WE4.2.....	27.57	17.76	2.18	27.40	17.23	2.53
WE4.3.....	28.05	17.87	2.26	28.57	17.60	3.06
WE4.4.....	28.45	17.81	3.51	27.77	17.56	3.73
LE5.5.....	28.35	18.27	3.62	26.42	17.24	3.21



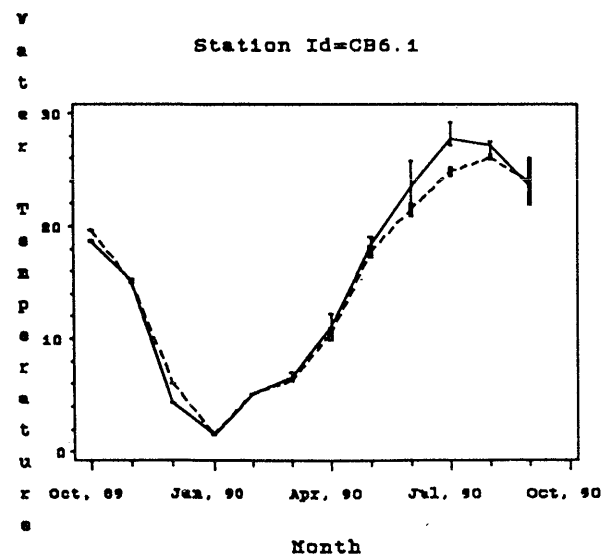
— Surface - - - - Bottom



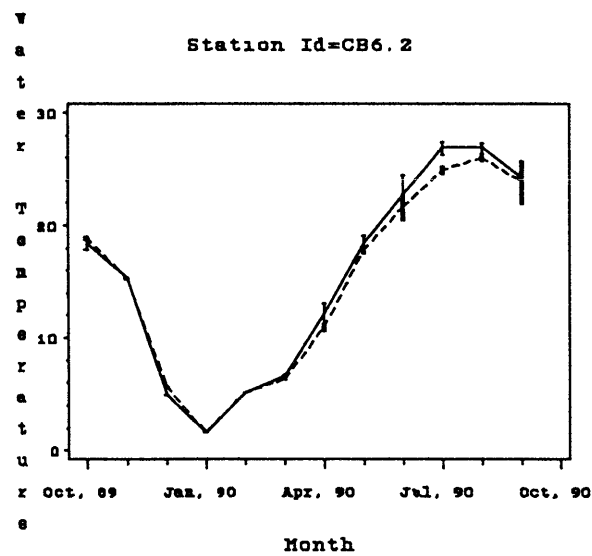
— Surface - - - - Bottom



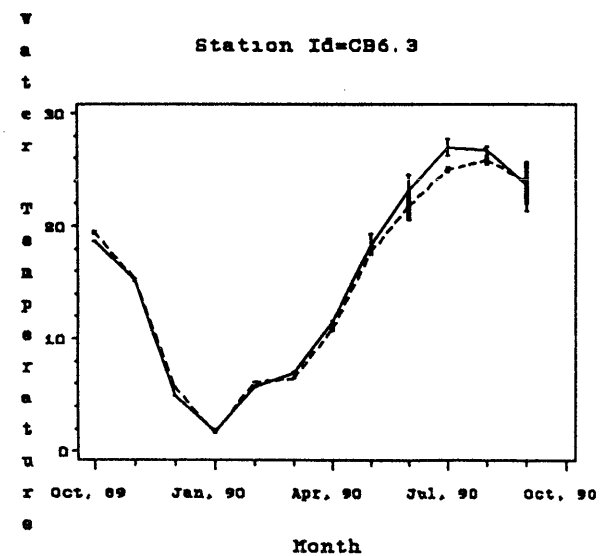
— Surface - - - - Bottom



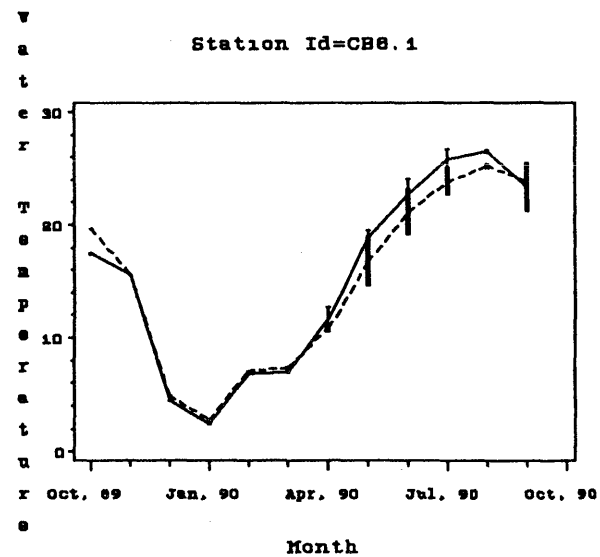
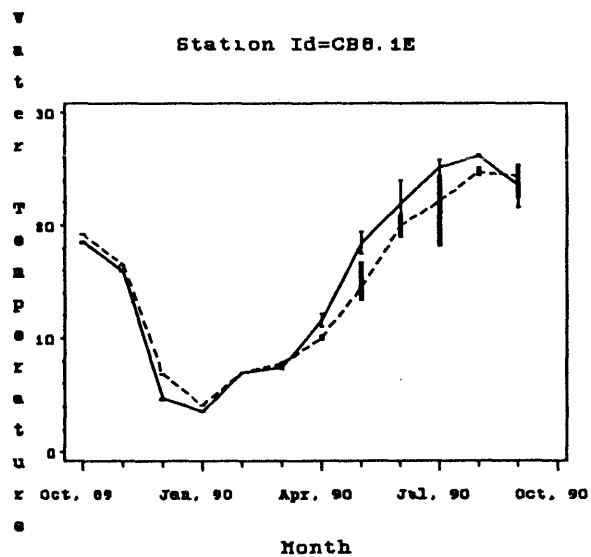
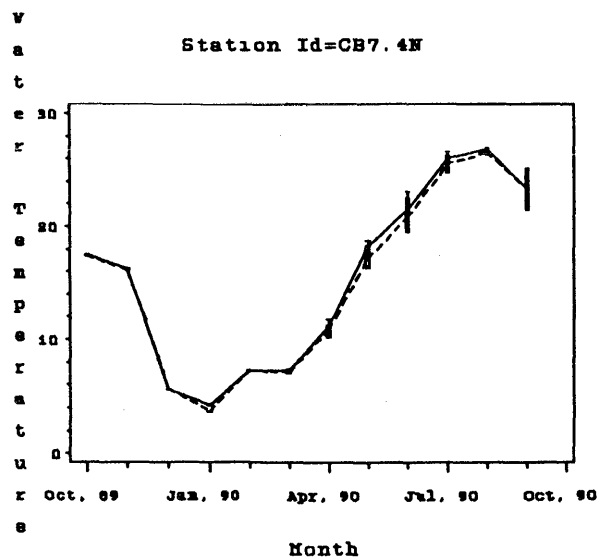
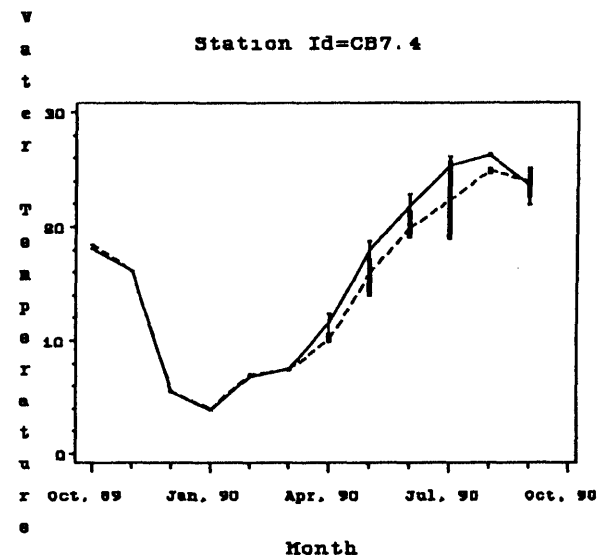
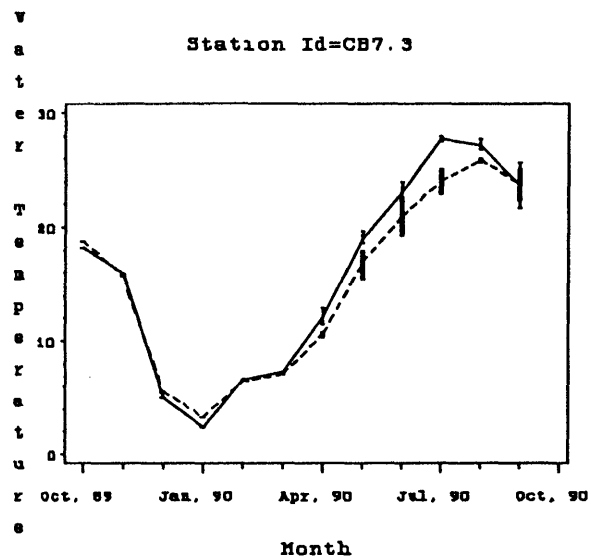
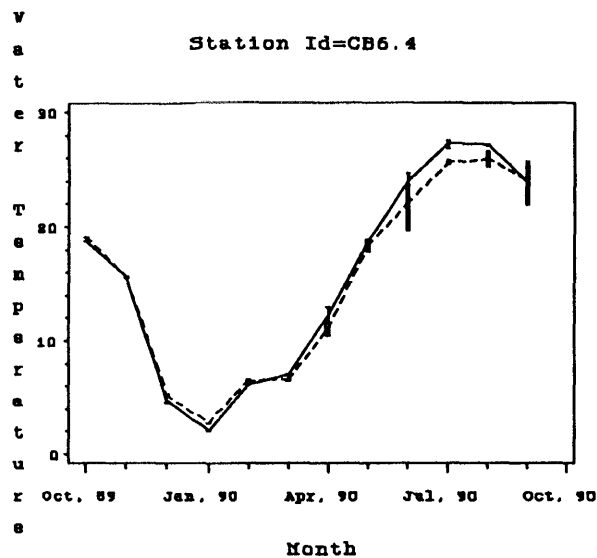
— Surface - - - - Bottom

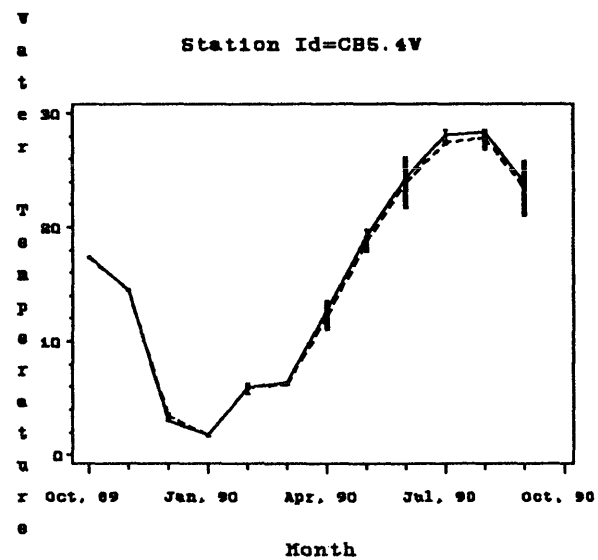
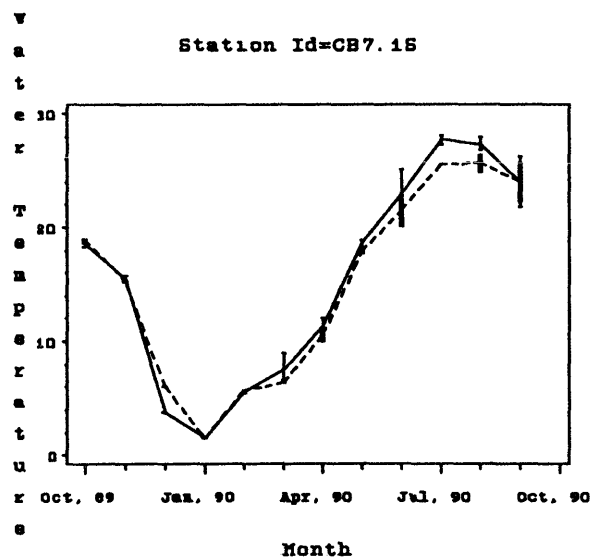
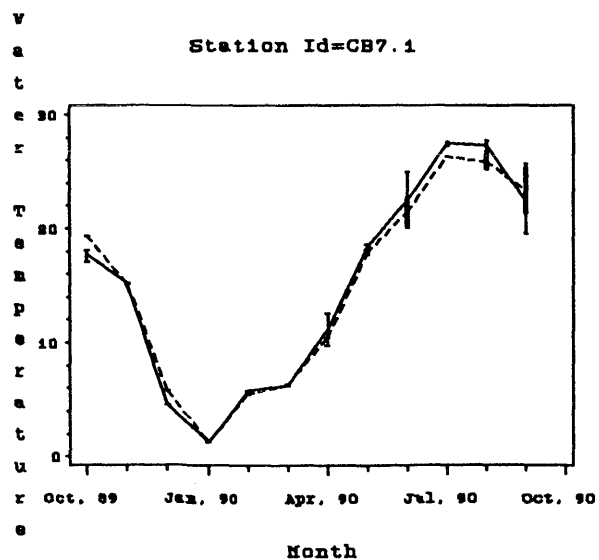
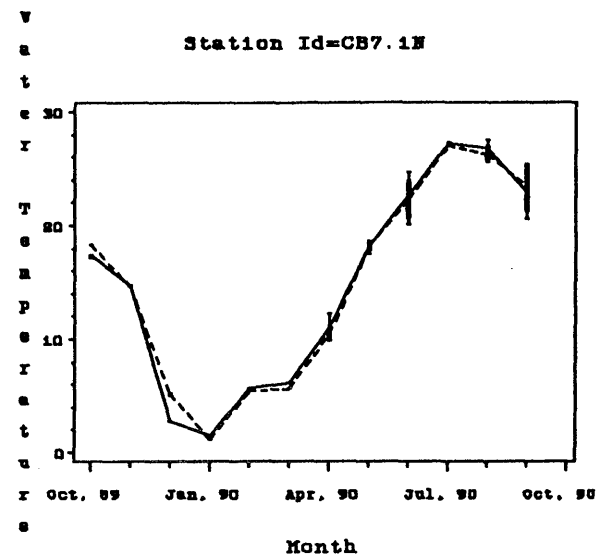
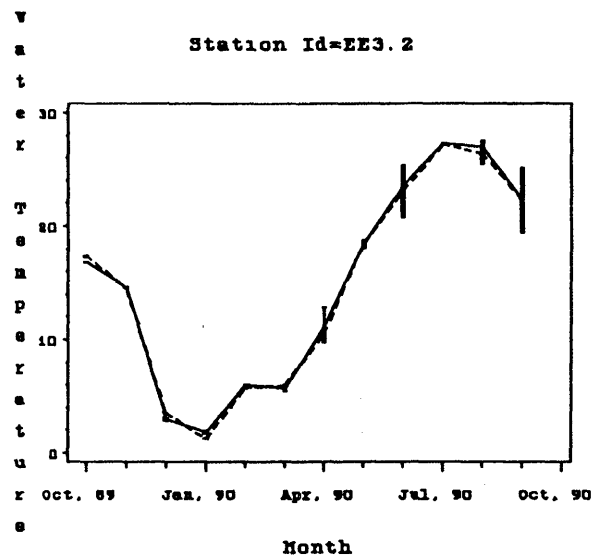
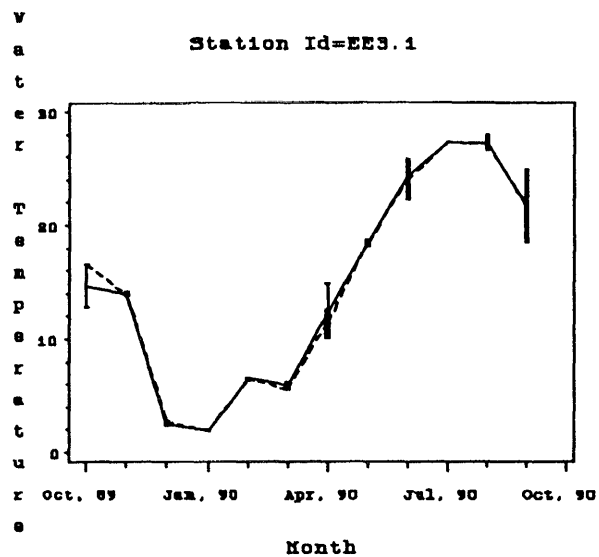


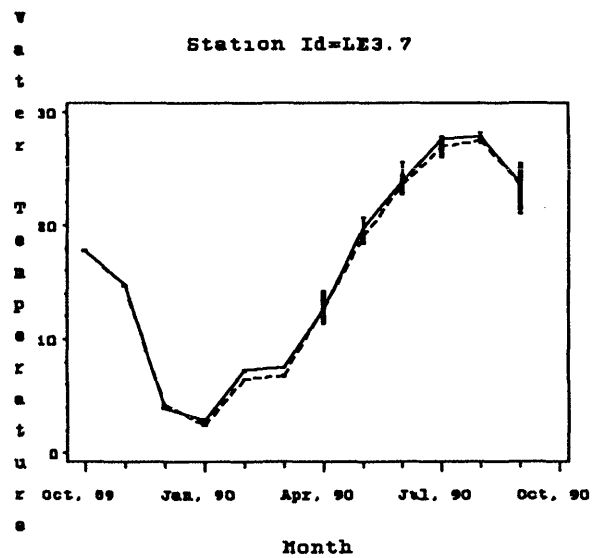
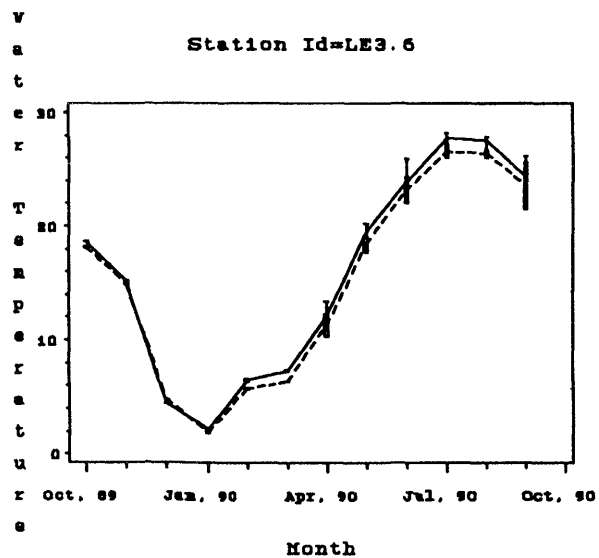
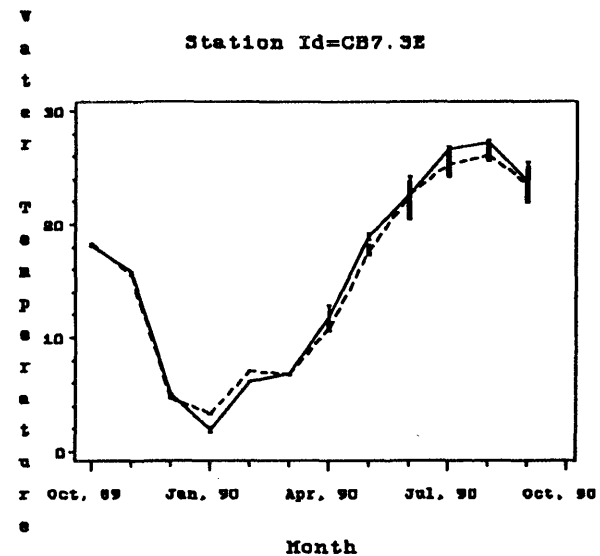
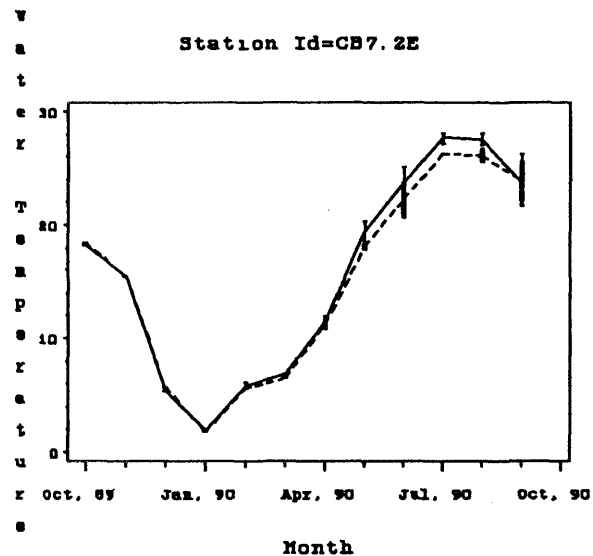
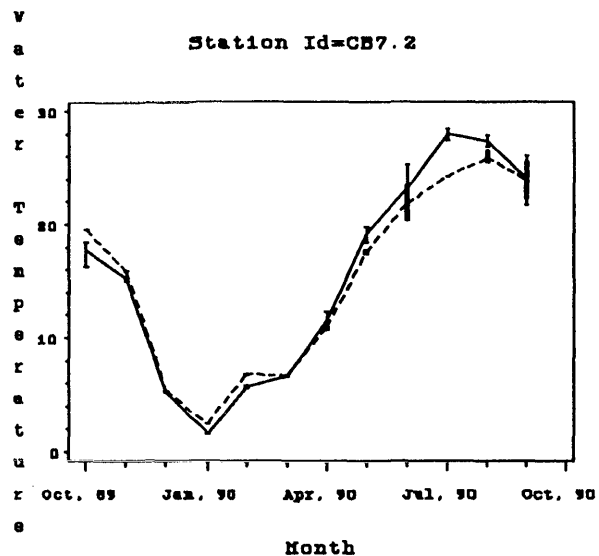
— Surface - - - - Bottom

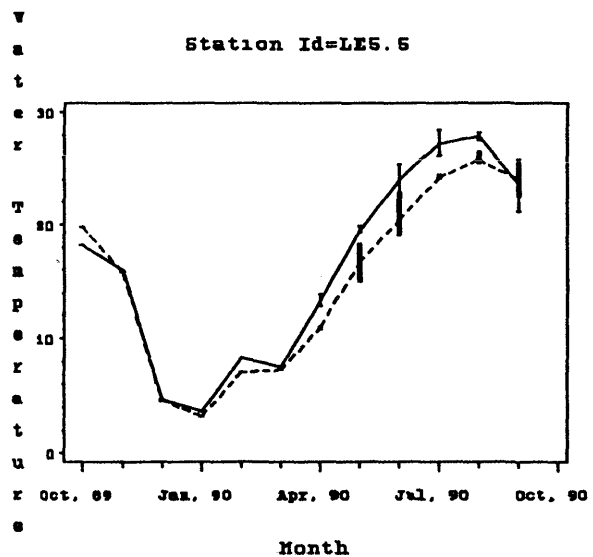
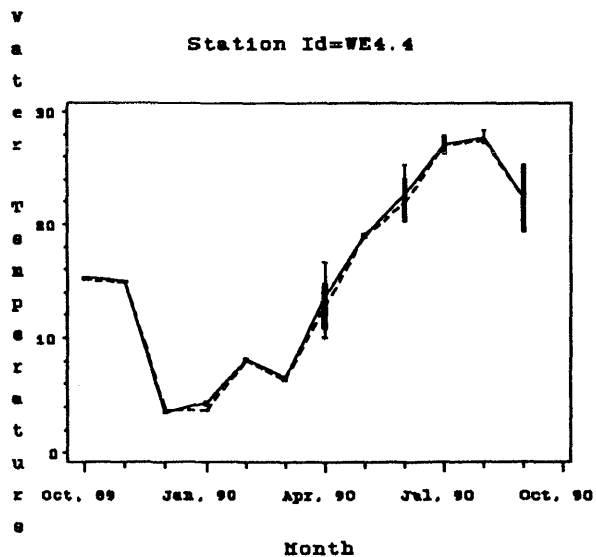
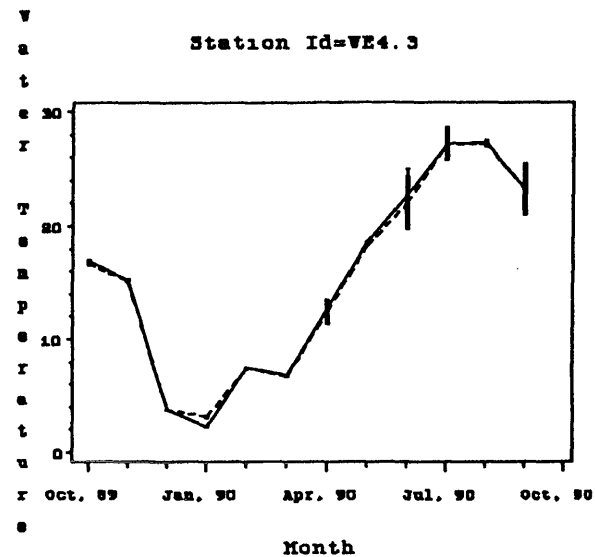
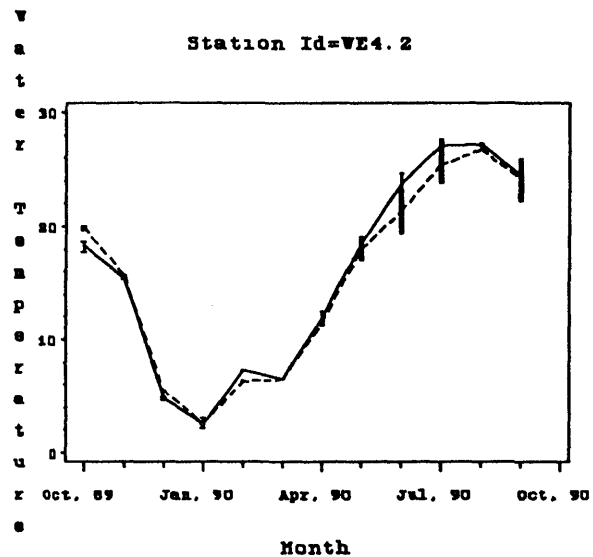
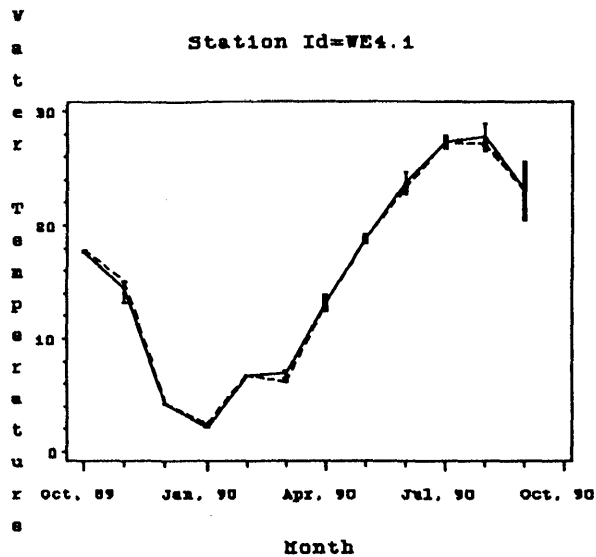


— Surface - - - - Bottom









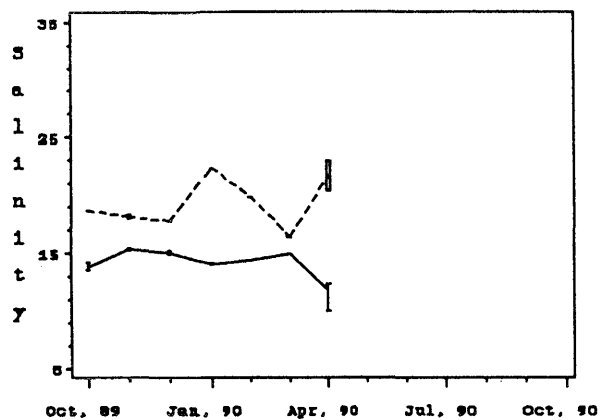
SALINITY

Salinity is calculated using UNESCO 83 EOS
and is reported as practical salinity (PS).

Salinity
October, 1989 - September, 1990

Station	Salinity (PS)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	15.44	13.82	10.02	22.89	19.54	16.30
CB5.4.....	16.82	14.40	12.41	25.95	20.97	16.02
CB5.5.....	17.63	15.02	13.09	25.56	20.05	16.29
CB6.1.....	18.76	15.88	13.25	26.46	20.24	15.92
CB6.2.....	19.52	16.55	13.85	26.39	20.57	16.86
CB6.3.....	18.71	16.76	13.81	26.15	21.18	17.31
CB6.4.....	21.30	18.48	15.60	26.90	21.47	17.30
CB7.3.....	24.10	21.10	17.70	30.40	27.11	22.90
CB7.4.....	29.60	26.05	22.00	32.60	29.86	23.80
CB7.4N.....	32.00	27.01	21.20	32.00	29.35	23.70
CB8.1E.....	28.60	23.76	19.70	33.10	29.92	24.70
CB8.1.....	24.00	21.29	18.00	30.00	25.25	21.50
EE3.1.....	19.27	16.10	12.94	19.14	16.47	14.99
EE3.2.....	19.63	17.23	15.33	24.41	18.58	16.10
CB7.1N.....	18.32	16.22	13.95	24.87	18.75	16.08
CB7.1.....	19.73	17.16	14.70	26.05	20.73	17.58
CB7.1S.....	20.21	17.59	15.09	26.93	21.79	18.64
CB5.4W.....	16.25	14.18	12.83	17.65	14.38	12.83
CB7.2.....	19.99	17.99	14.56	28.65	25.02	22.02
CB7.2E.....	22.08	19.76	17.35	27.60	22.22	19.89
CB7.3E.....	24.10	21.65	17.40	29.10	25.69	21.60
LE3.6.....	16.47	14.73	13.53	18.91	16.09	13.91
LE3.7.....	16.71	15.26	14.01	18.09	15.59	14.25
WE4.1.....	20.97	18.71	17.61	20.00	18.97	17.82
WE4.2.....	21.03	18.70	15.64	24.72	20.99	18.62
WE4.3.....	21.25	18.98	17.10	21.77	19.23	17.40
WE4.4.....	20.64	18.99	17.63	20.69	19.23	17.57
LE5.5.....	22.90	18.80	14.10	29.90	24.87	18.90

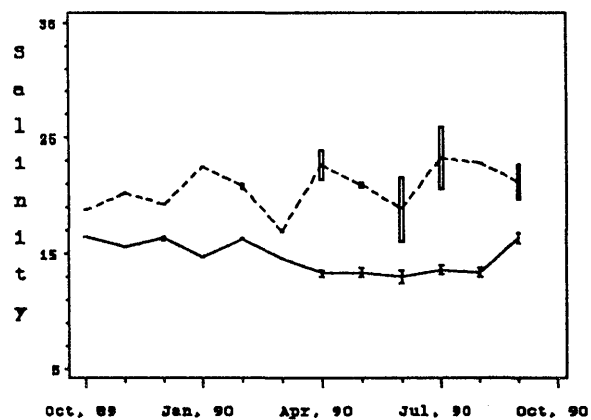
Station Id=CB5.3



Month

— Surface - - - - Bottom

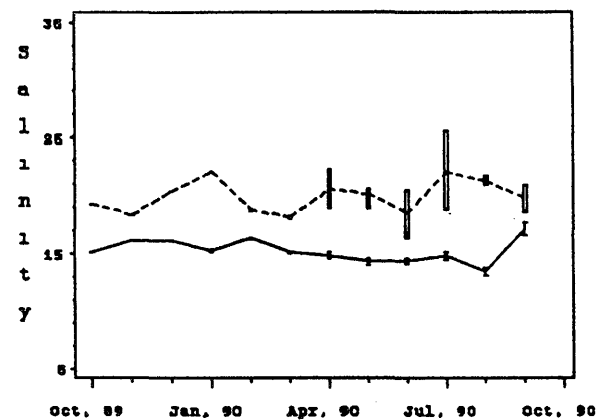
Station Id=CB5.4



Month

— Surface - - - - Bottom

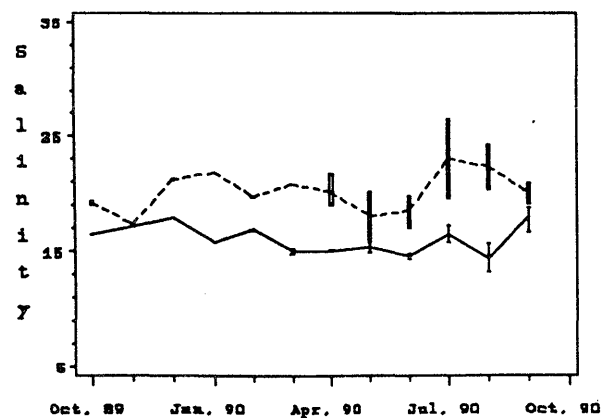
Station Id=CB5.5



Month

— Surface - - - - Bottom

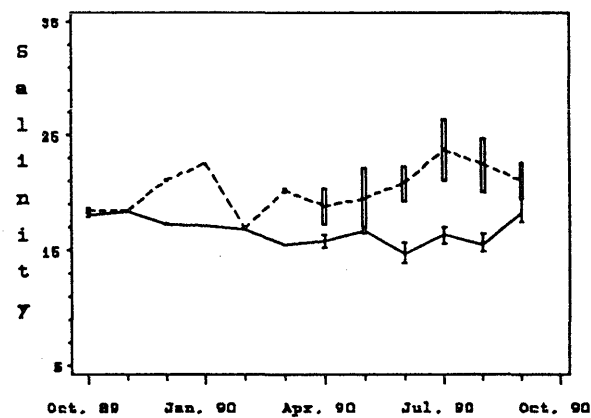
Station Id=CB6.1



Month

— Surface - - - - Bottom

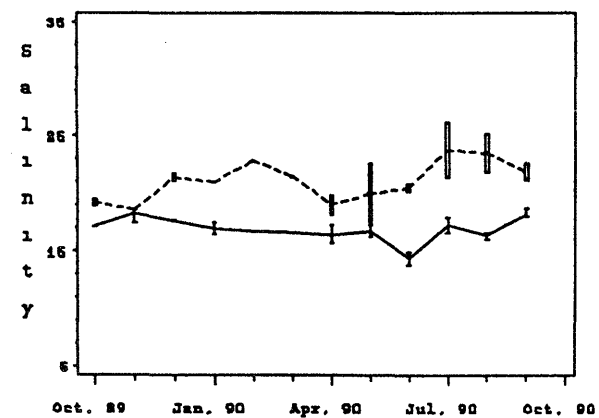
Station Id=CB6.2



Month

— Surface - - - - Bottom

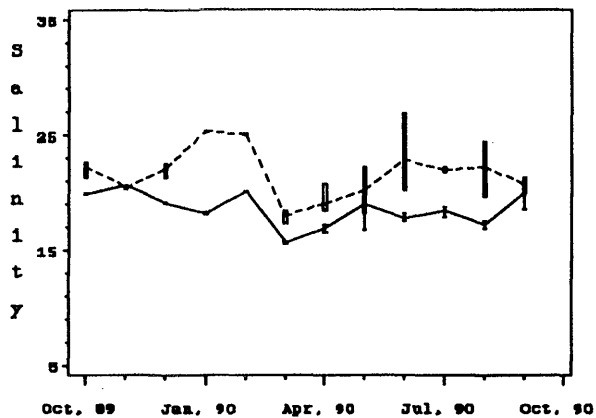
Station Id=CB6.3



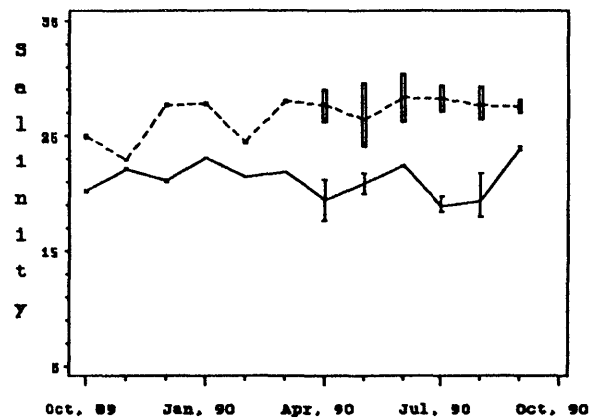
Month

— Surface - - - - Bottom

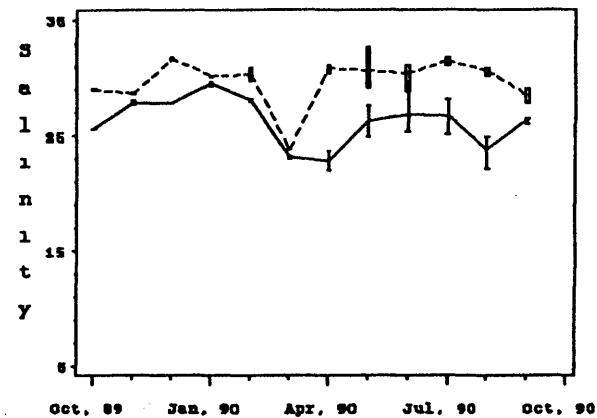
Station Id=CB6.4



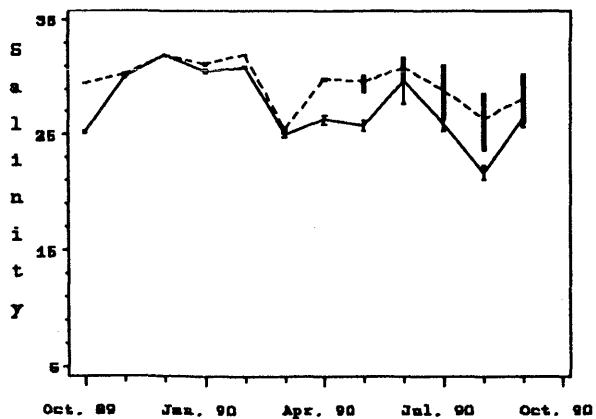
Station Id=CB7.3



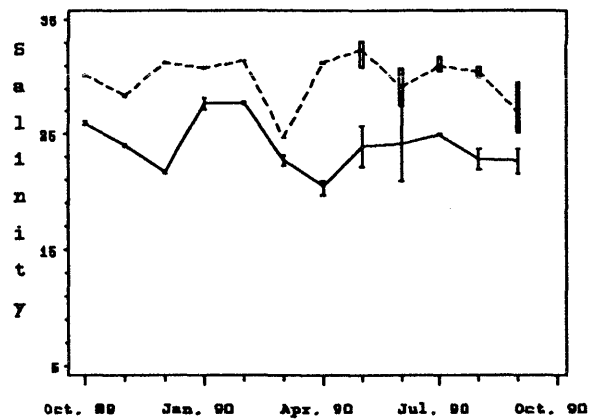
Station Id=CB7.4



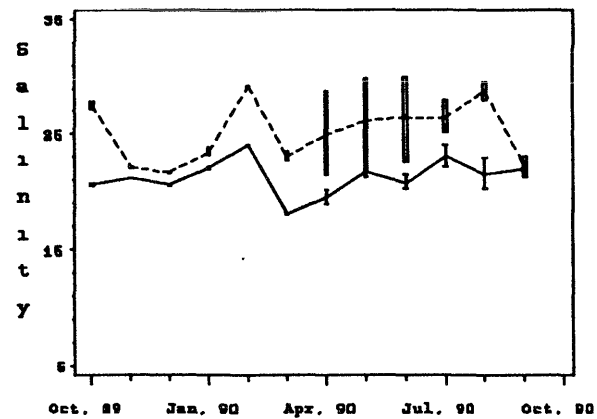
Station Id=CB7.4N



Station Id=CB8.1E



Station Id=CB8.1



— Surface - - - - Bottom

— Surface - - - - Bottom

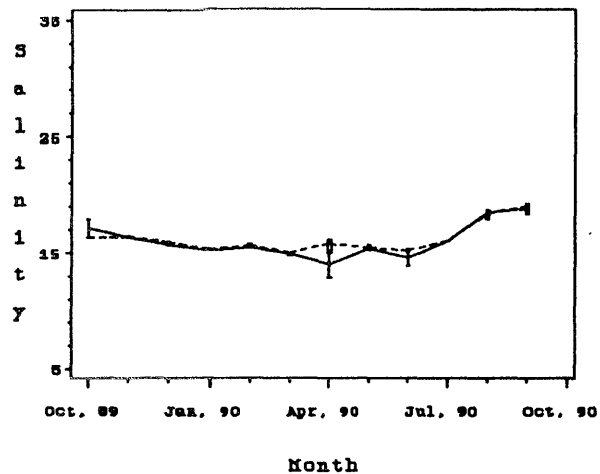
— Surface - - - - Bottom

— Surface - - - - Bottom

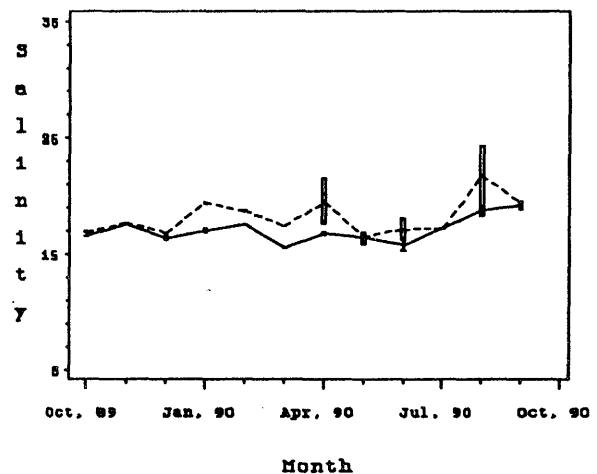
— Surface - - - - Bottom

— Surface - - - - Bottom

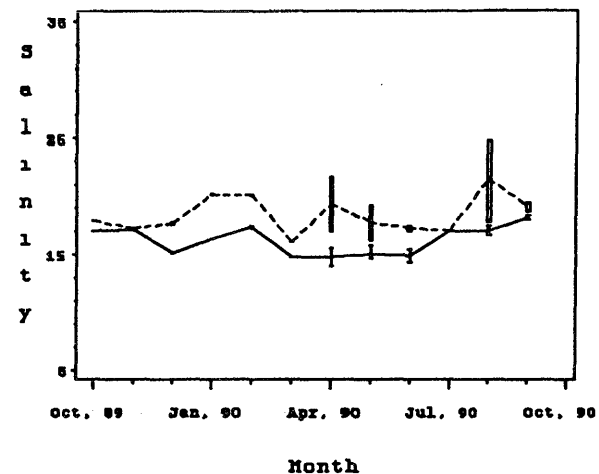
Station Id=EE3.1



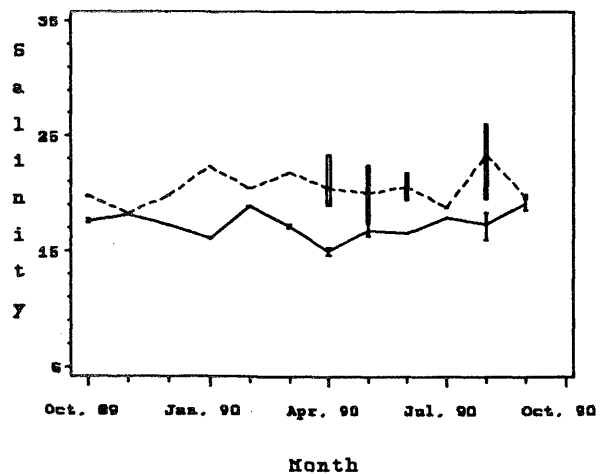
Station Id=EE3.2



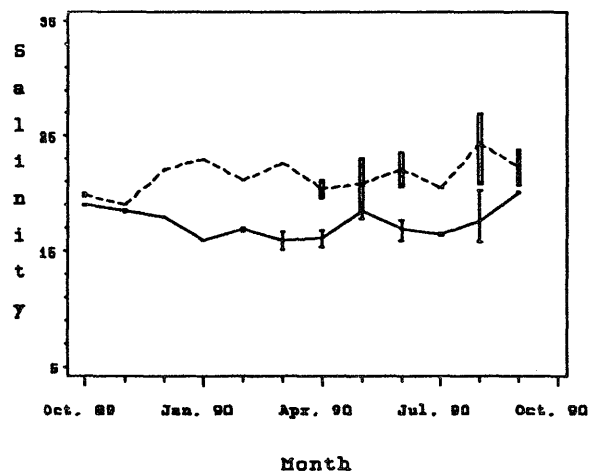
Station Id=CB7.1N



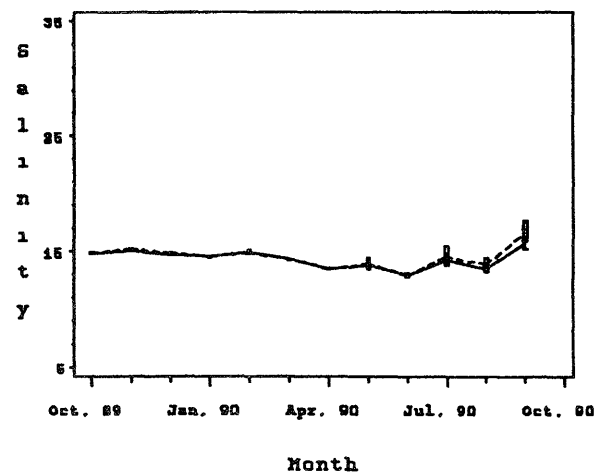
Station Id=CB7.1



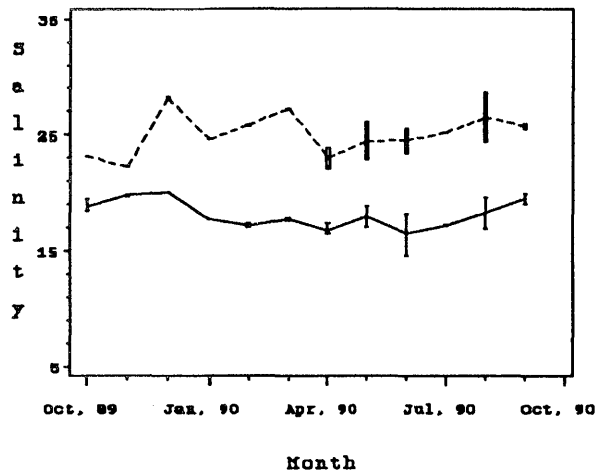
Station Id=CB7.1S



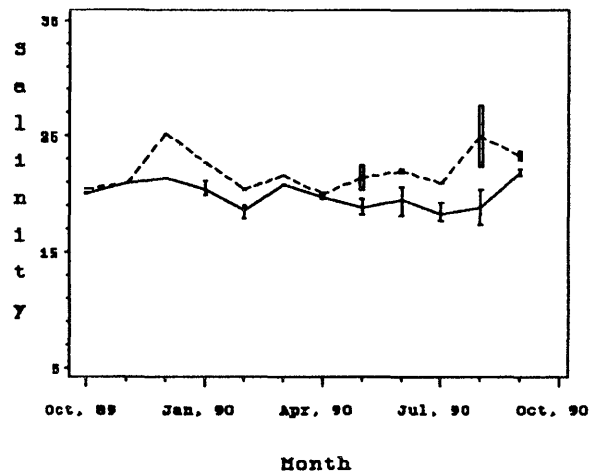
Station Id=CB5.4V



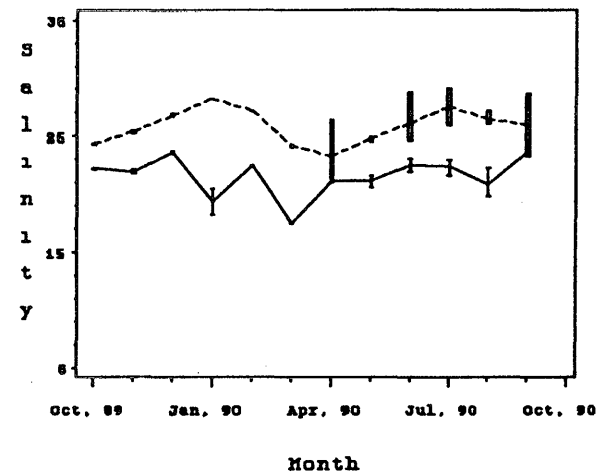
Station Id=CB7.2



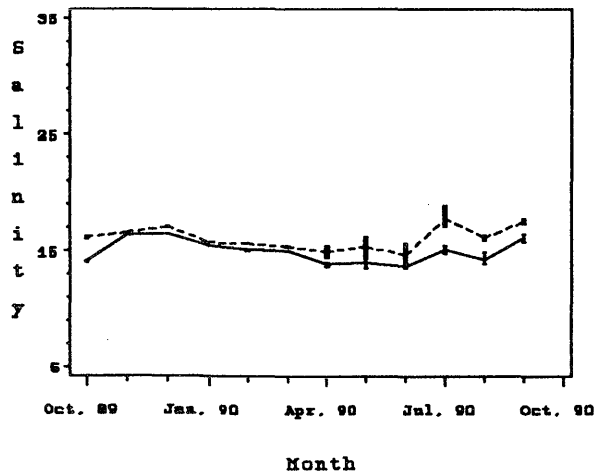
Station Id=CB7.2E



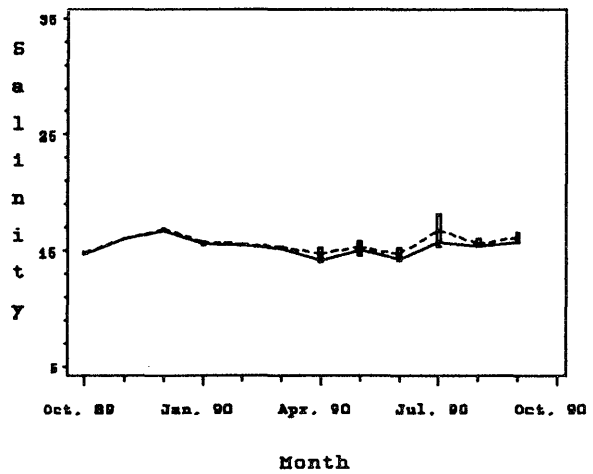
Station Id=CB7.3E



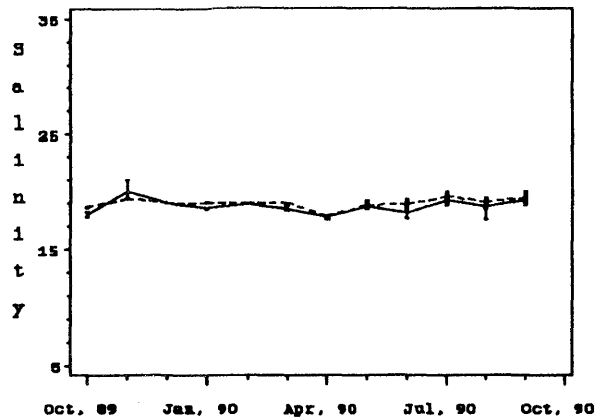
Station Id=LE3.6



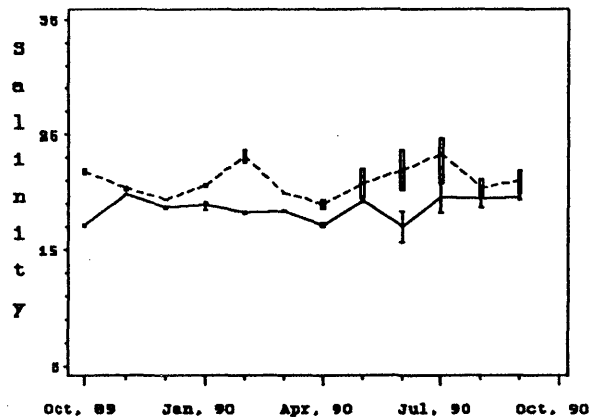
Station Id=LE3.7



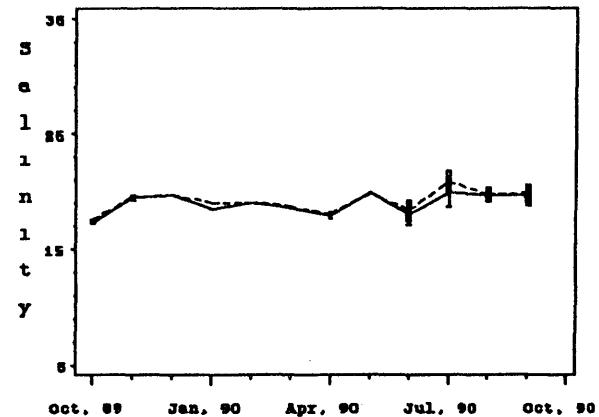
Station Id=WE4.1



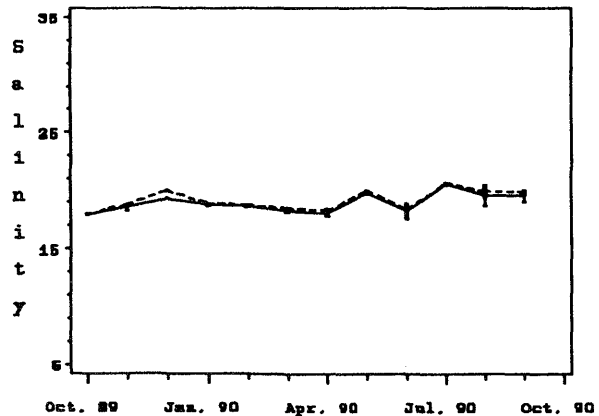
Station Id=WE4.2



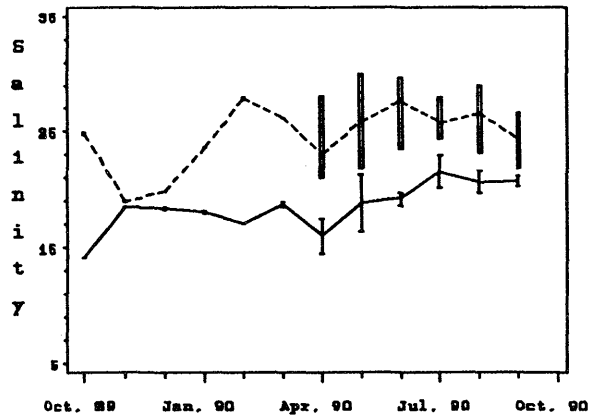
Station Id=WE4.3



Station Id=WE4.4



Station Id=LE5.5



DISSOLVED OXYGEN

Values reported as mg/l.

Dissolved Oxygen
October, 1989 - September, 1990

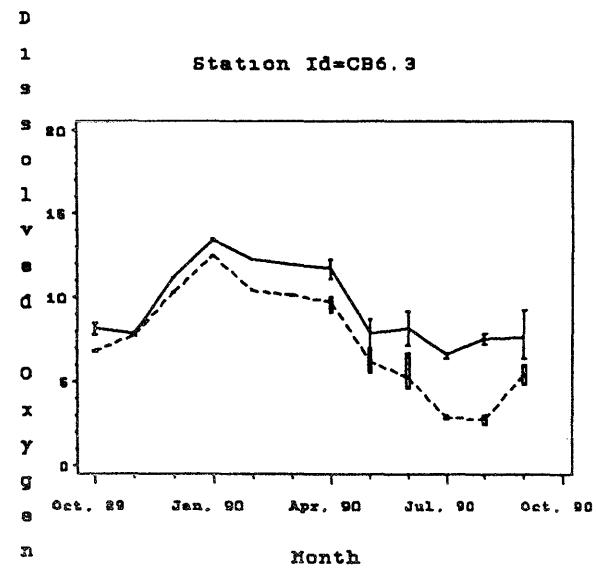
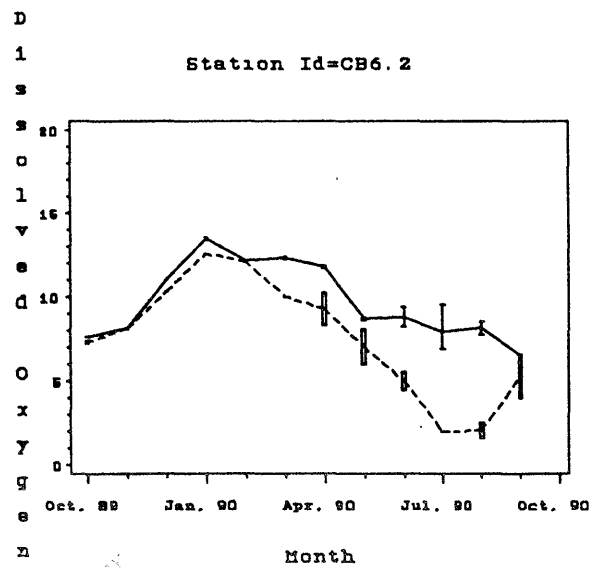
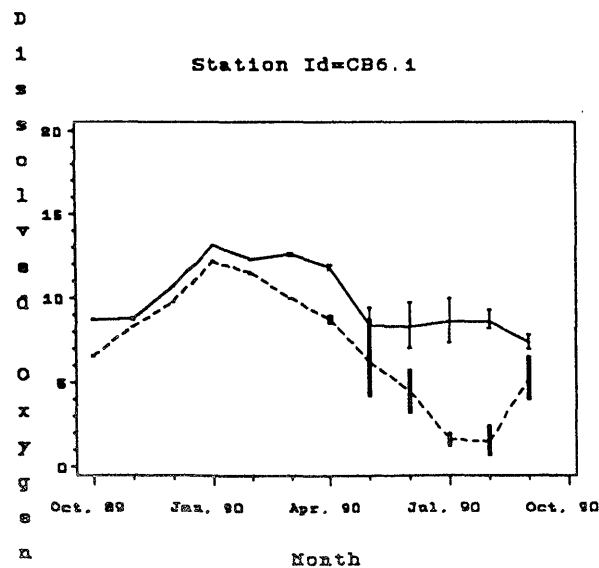
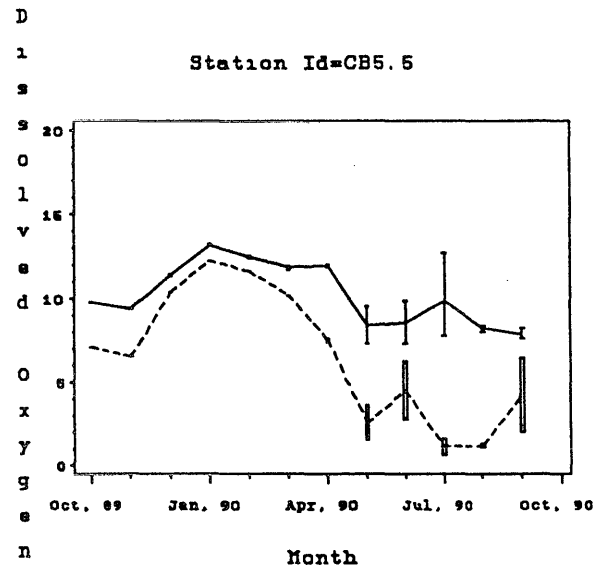
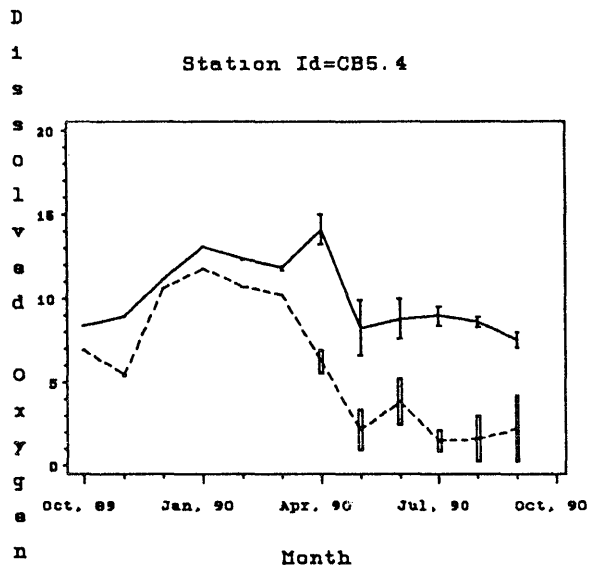
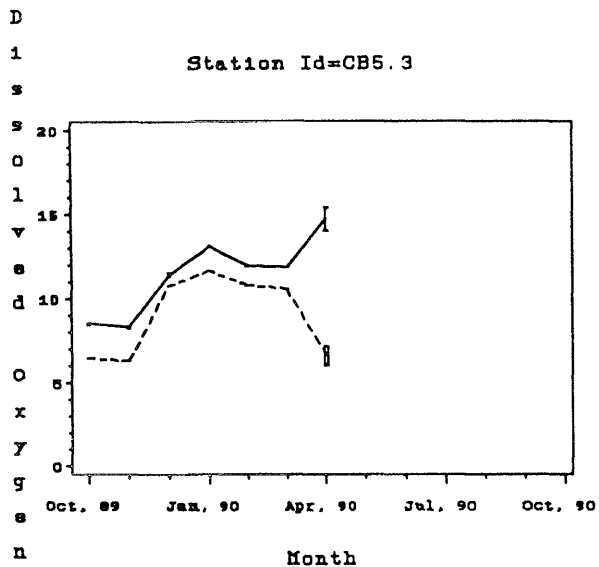
Station	Dissolved Oxygen (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	15.37	11.78	8.21	11.62	8.69	6.02
CB5.4.....	15.00	9.89	6.57	11.78	5.05	0.18
CB5.5.....	13.20	9.85	7.28	12.24	5.55	0.63
CB6.1.....	13.18	9.60	7.02	12.20	6.33	0.67
CB6.2.....	13.51	9.36	6.48	12.57	6.76	1.60
CB6.3.....	13.45	9.09	6.37	12.45	6.79	2.47
CB6.4.....	12.66	9.29	6.08	11.49	7.33	1.82
CB7.3.....	12.41	8.86	5.84	11.22	7.17	4.49
CB7.4.....	11.08	8.15	5.87	10.70	7.43	4.72
CB7.4N.....	10.99	8.16	5.95	10.92	7.81	5.64
CB8.1E.....	11.47	8.12	5.74	10.22	6.96	4.61
CB8.1.....	12.41	8.40	6.01	11.75	7.13	3.59
EE3.1.....	13.95	8.51	6.11	13.95	8.73	5.96
EE3.2.....	13.62	8.40	5.70	12.83	7.52	2.02
CB7.1N.....	13.74	9.07	6.08	12.76	6.80	2.56
CB7.1.....	13.85	9.03	5.83	12.39	6.40	1.61
CB7.1S.....	13.96	9.07	6.29	12.42	6.42	1.78
CB5.4W.....	13.11	9.57	7.19	13.10	9.13	4.34
CB7.2.....	13.63	9.65	6.76	12.30	6.90	3.27
CB7.2E.....	13.15	8.86	6.80	12.90	7.24	2.77
CB7.3E.....	12.72	8.60	5.89	11.09	7.45	4.21
LE3.6.....	13.21	9.33	6.98	13.09	7.90	2.28
LE3.7.....	13.02	9.24	6.67	13.09	8.65	3.43
WE4.1.....	12.79	8.47	6.16	13.50	8.07	4.21
WE4.2.....	12.88	8.19	5.02	13.11	6.44	1.93
WE4.3.....	15.95	9.06	5.91	16.25	8.48	2.49
WE4.4.....	12.93	8.32	5.42	12.92	8.36	5.33
LE5.5.....	12.53	8.91	6.18	11.10	6.85	4.28

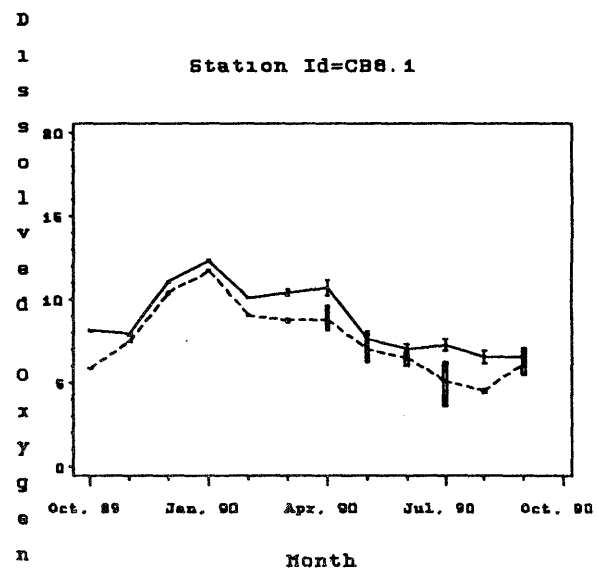
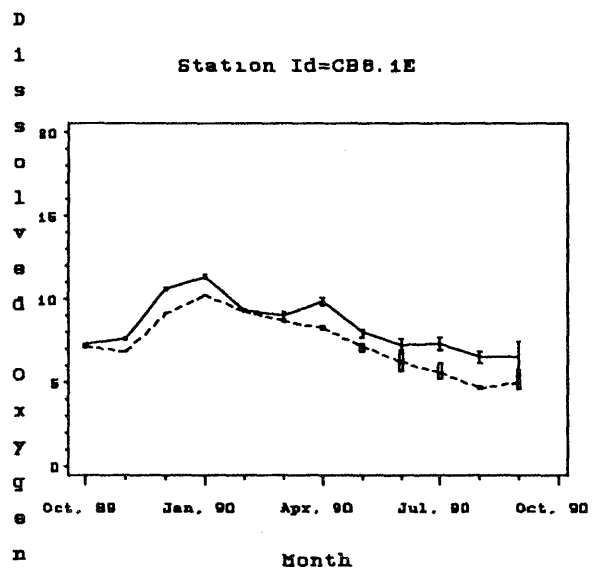
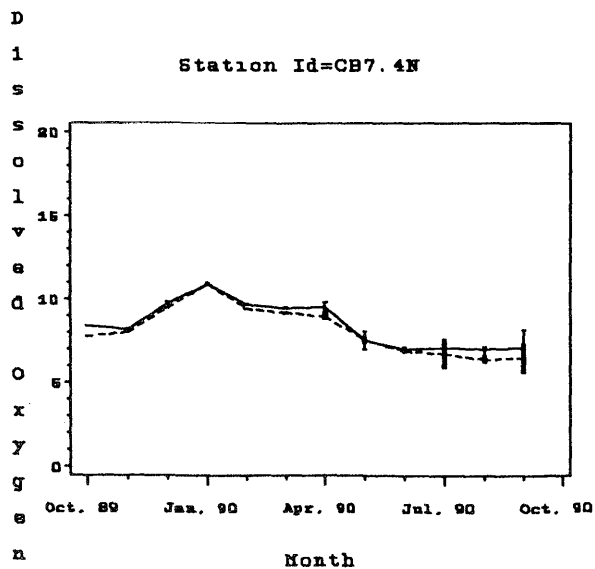
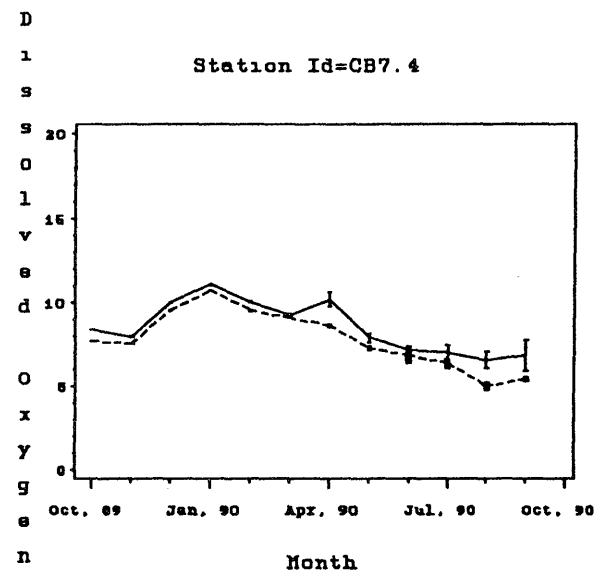
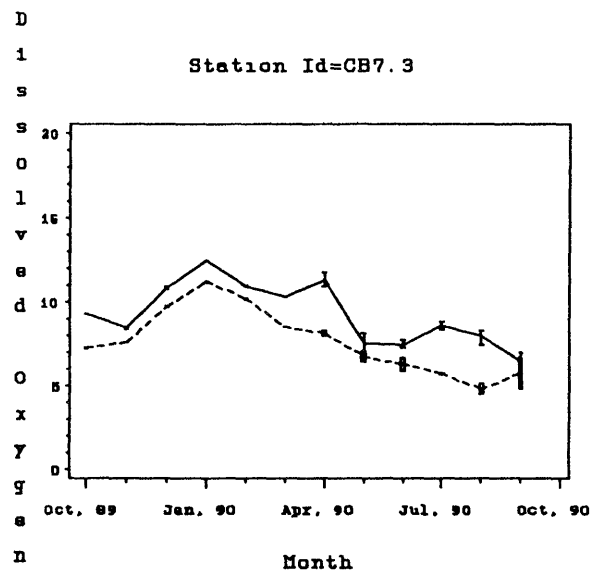
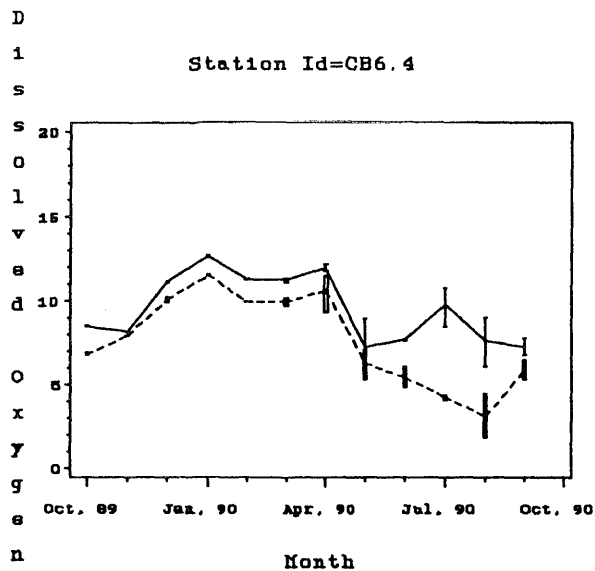
Dissolved Oxygen
October, 1989 - September, 1990

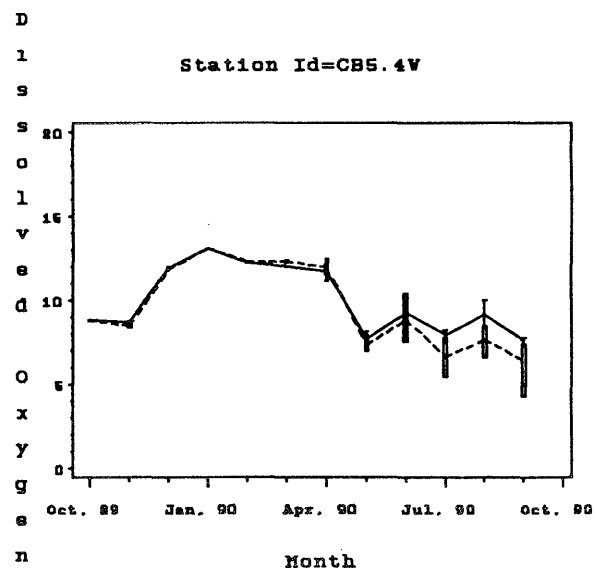
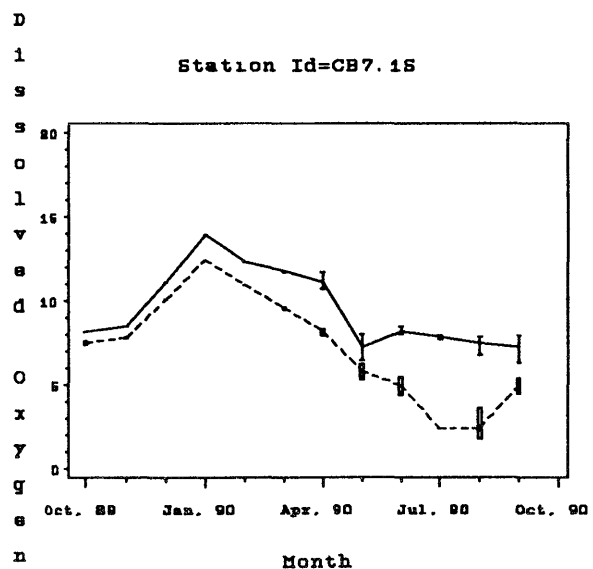
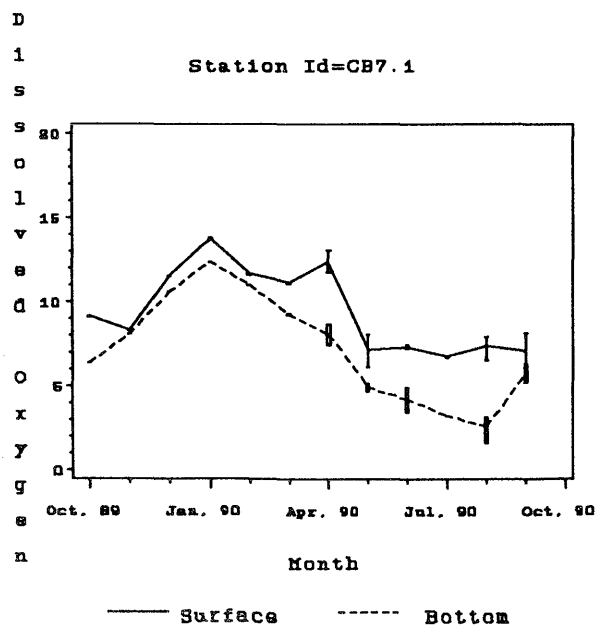
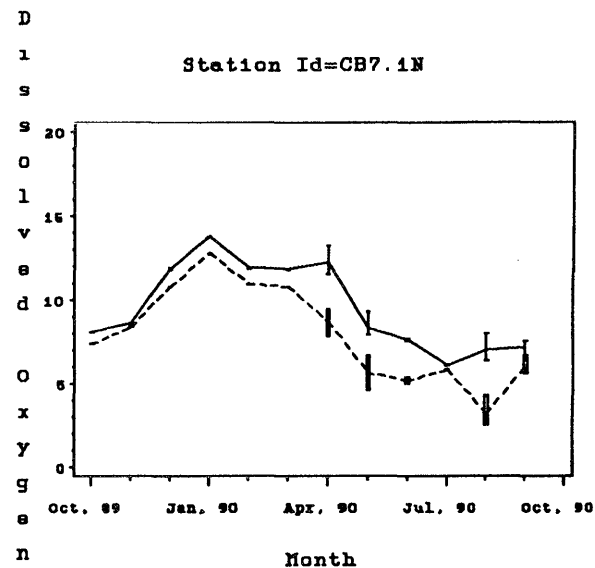
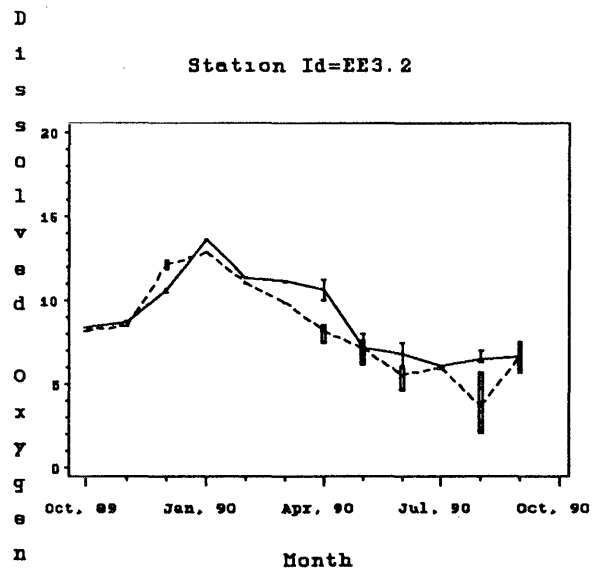
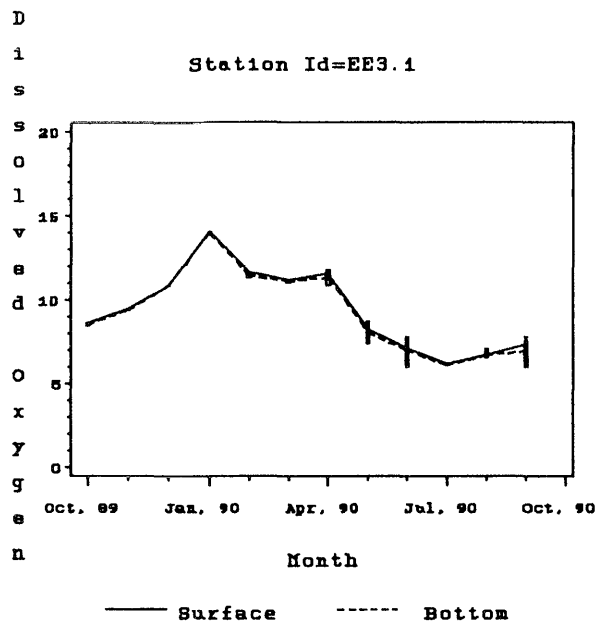
	CB7.4N	CB7.4	CB8.1E	CB8.1	CB7.3	CB7.3E	CB6.4	CB6.3	CB7.2	CB7.2E	CB6.2	CB6.1	CB5.5	CB5.4	CB5.3
Oct, 1989															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	13	12	17	8	13	18	9	12	19	12	9	12	17	24	19
Nov, 1989															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	14	14	16	16	12	19	10	12	18	13	10	12	16	24	18
Dec, 1989															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	15	8	16	9	11	15	11	12	19	12	10	12	17	23	19
Jan, 1990															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	13	11	17	9	13	17	9	11	18	13	10	12	17	25	19
Feb, 1990															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	14	11	16	12	13	19	11	11	18	12	9	12	16	22	19
Mar, 1990															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	15	12	17	9	11	19	9	11	18	11	9	12	16	23	18
Apr, 1990															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	28	26	33	17	29	31	19	22	37	24	19	24	34	47	38
May, 1990															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.39	24.24	44.68	*
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.09	38.30	*
Total Obs.....	29	27	33	17	25	30	18	25	37	26	19	23	33	47	0
Jun, 1990															
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	11.11	37.04	0.00	0.00	25.00	25.00	14.71	21.28	*
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	11.76	19.15	*
Total Obs.....	28	29	33	16	24	31	18	27	37	26	20	24	34	47	0
Jul, 1990															
% < 5.....	0.00	0.00	0.00	12.50	4.17	11.11	37.50	60.00	77.78	61.54	40.00	34.78	40.62	68.09	*
% < 4.....	0.00	0.00	0.00	6.25	0.00	0.00	0.00	52.00	72.22	0.00	35.00	26.09	37.50	61.70	*
Total Obs.....	25	26	31	16	24	36	16	25	18	13	20	23	32	47	0
Aug, 1990															
% < 5.....	0.00	21.74	43.33	40.00	50.00	38.24	44.44	47.83	68.52	61.54	40.00	41.67	51.52	65.22	*
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	22.22	43.48	31.48	35.90	35.00	33.33	39.39	50.00	*
Total Obs.....	23	23	30	15	26	34	18	23	54	39	20	24	33	46	0
Sep, 1990															
% < 5.....	0.00	0.00	12.50	0.00	17.86	3.57	0.00	22.73	25.71	32.00	25.00	28.00	21.87	37.50	*
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00	18.75	16.67	*
Total Obs.....	25	27	32	16	28	28	19	22	35	25	20	25	32	48	0

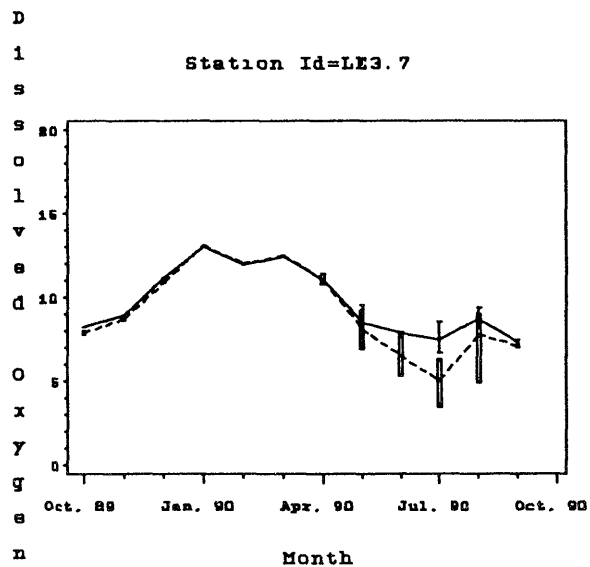
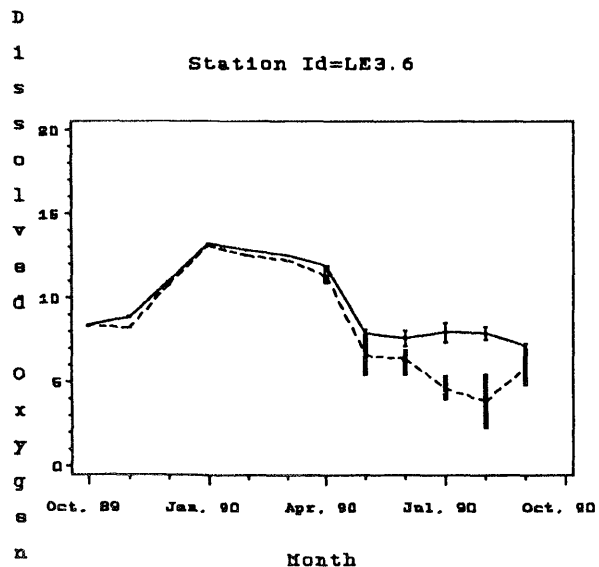
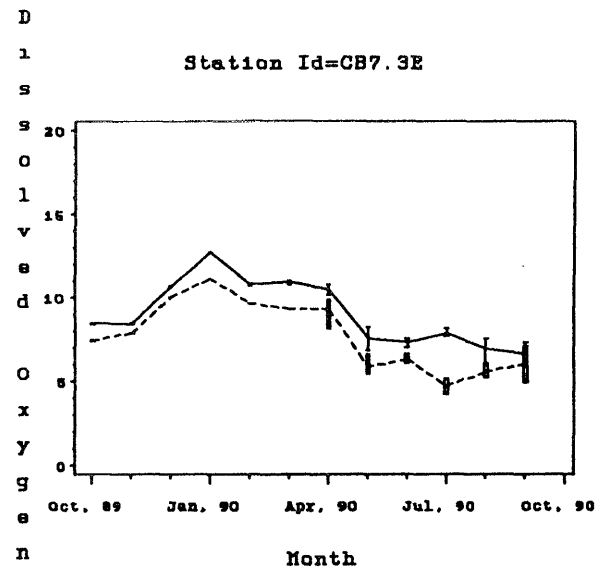
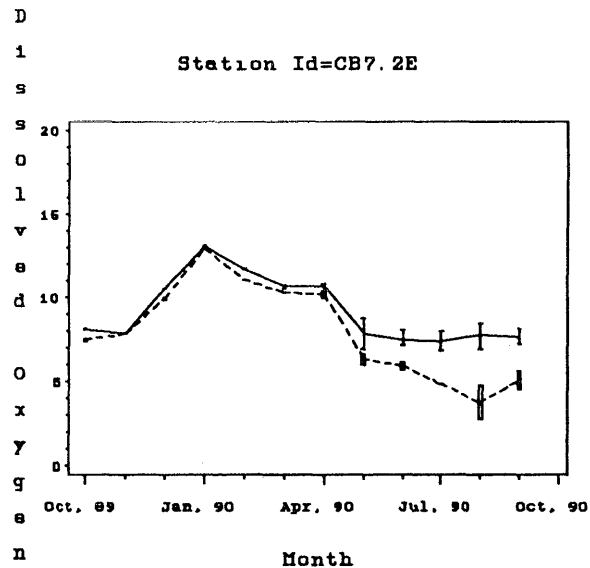
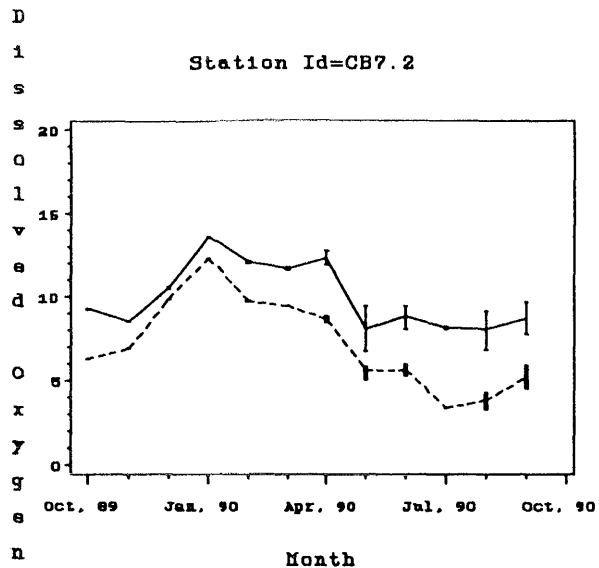
Dissolved Oxygen
October, 1989 - September, 1990

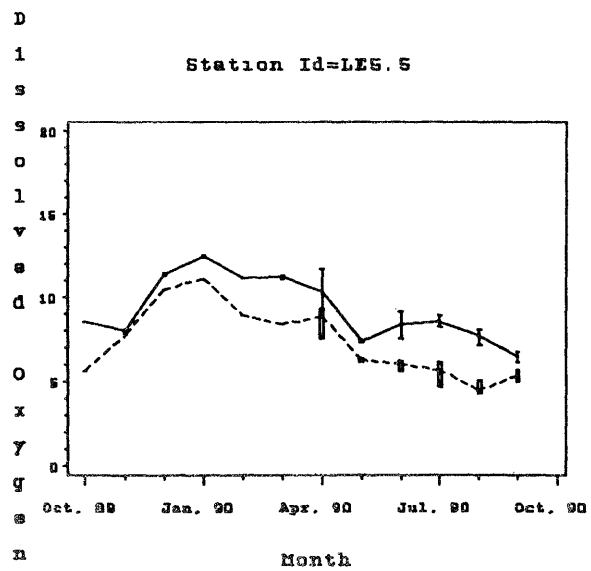
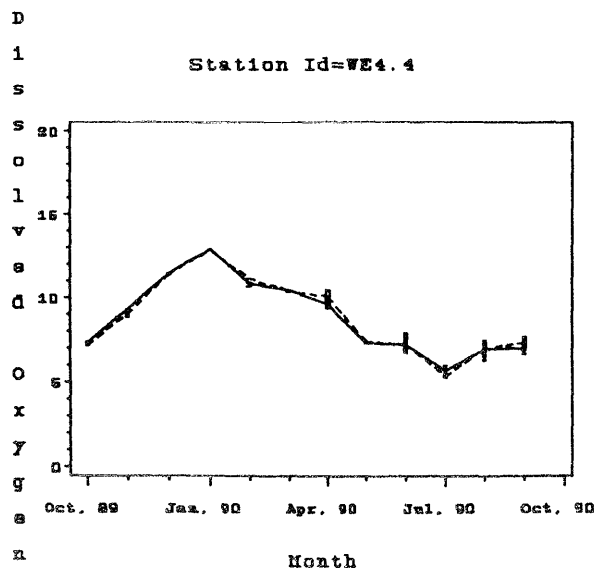
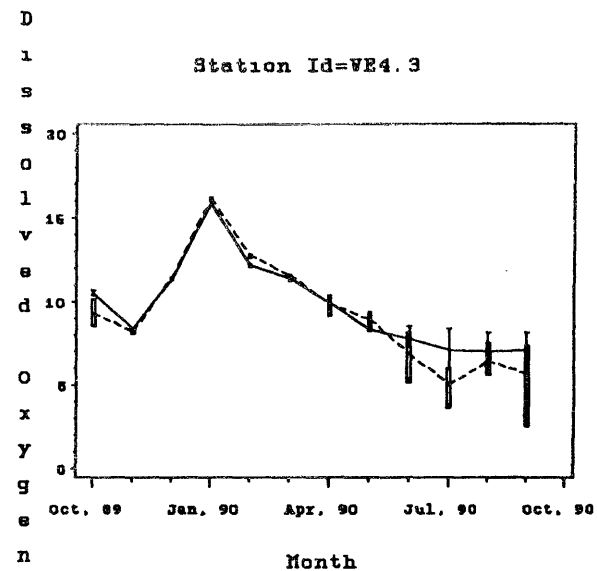
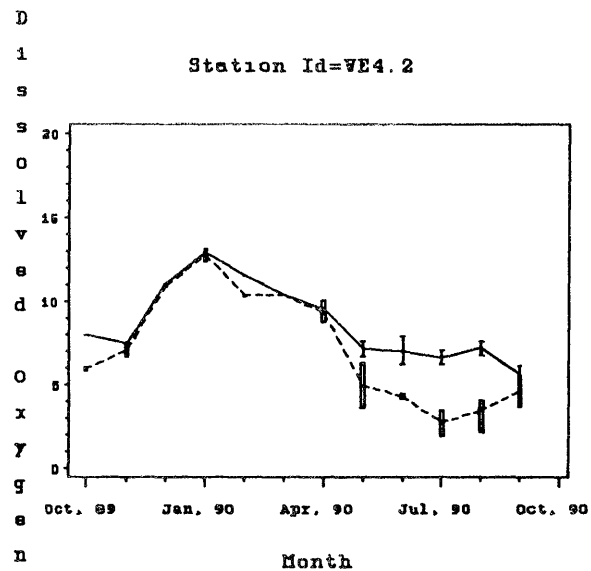
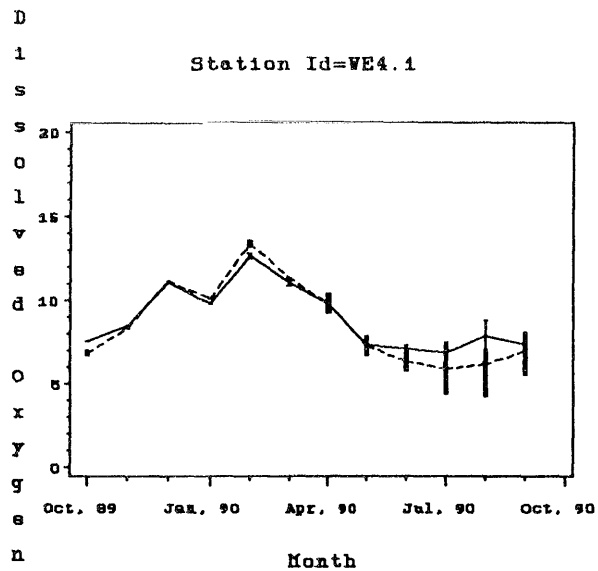
	CB7.1S	CB7.1	CB7.1N	EE3.2	EE3.1	CB5.4W	LE3.6	LE3.7	WE4.1	WE4.2	WE4.3	WE4.4	LE5.5
Oct, 1989													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	13	18	22	21	3	4	8	6	5	12	4	6	15
Nov, 1989													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	15	20	22	22	4	4	6	6	5	15	5	6	15
Dec, 1989													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	14	19	24	20	3	4	9	6	5	14	5	6	17
Jan, 1990													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	13	20	22	20	3	5	9	6	6	14	5	7	17
Feb, 1990													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	15	20	23	21	3	4	8	6	5	12	5	7	20
Mar, 1990													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	13	20	20	21	3	4	8	6	5	16	4	7	18
Apr, 1990													
% < 5.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	28	39	46	42	6	7	16	10	9	25	10	14	34
May, 1990													
% < 5.....	0.00	5.00	4.55	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00	0.00	0.00
Total Obs.....	29	40	44	41	8	9	18	12	10	24	5	7	36
Jun, 1990													
% < 5.....	28.12	40.54	0.00	7.14	0.00	0.00	0.00	0.00	0.00	41.67	0.00	0.00	0.00
% < 4.....	0.00	13.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Obs.....	32	37	47	42	9	8	16	14	11	24	17	18	38
Jul, 1990													
% < 5.....	73.33	25.00	0.00	0.00	0.00	0.00	35.29	25.00	10.00	40.74	20.00	0.00	15.62
% < 4.....	73.33	15.00	0.00	0.00	0.00	0.00	0.00	8.33	0.00	25.93	10.00	0.00	0.00
Total Obs.....	15	20	25	21	4	9	17	12	10	27	10	14	32
Aug, 1990													
% < 5.....	59.09	73.33	56.76	55.56	0.00	0.00	17.65	10.00	9.09	46.43	0.00	0.00	25.00
% < 4.....	52.27	61.67	31.08	52.38	0.00	0.00	17.65	0.00	0.00	21.43	0.00	0.00	0.00
Total Obs.....	44	60	74	63	10	9	17	10	11	28	10	15	36
Sep, 1990													
% < 5.....	16.67	0.00	0.00	0.00	0.00	12.50	11.76	0.00	0.00	42.31	10.00	0.00	0.00
% < 4.....	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.69	10.00	0.00	0.00
Total Obs.....	30	38	48	40	6	8	17	13	10	26	10	14	37









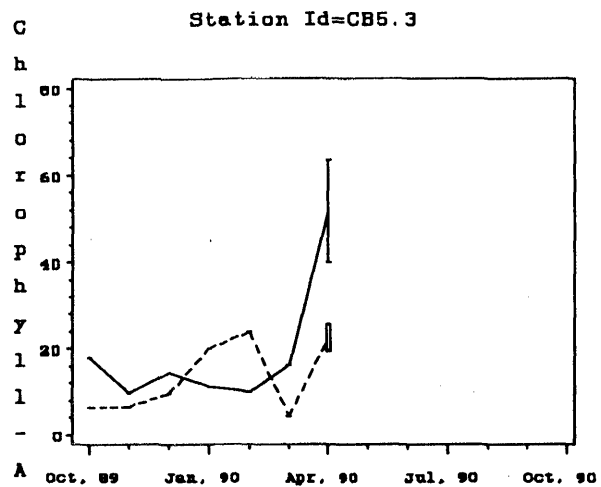


CHLOROPHYLL-A

Values reported as ug/l.

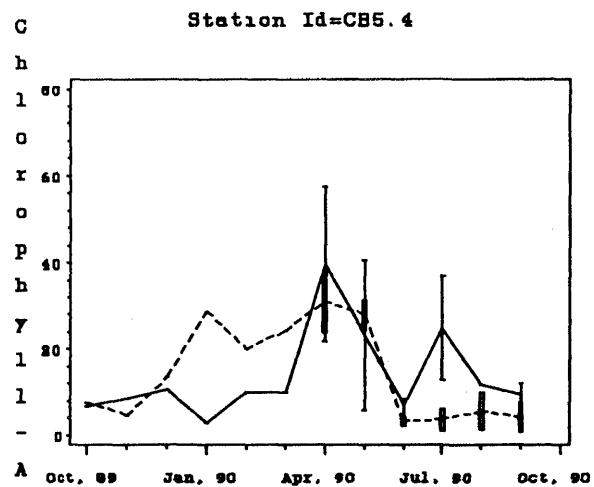
Chlorophyll-A
October, 1989 - September, 1990

Station	Chlorophyll-A (ug/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	63.44	22.88	9.61	25.69	14.48	4.36
CB5.4.....	57.71	14.83	2.84	38.28	13.94	0.64
CB5.5.....	43.97	15.60	4.78	115.93	16.06	1.46
CB6.1.....	48.06	15.63	5.61	40.97	9.87	1.10
CB6.2.....	43.06	13.46	3.74	44.63	10.34	1.48
CB6.3.....	49.37	14.51	3.90	34.24	8.81	0.00
CB6.4.....	40.70	14.20	3.93	40.41	8.88	0.00
CB7.3.....	31.51	7.94	0.70	13.82	4.49	0.32
CB7.4.....	19.07	5.42	0.31	12.55	4.92	1.48
CB7.4N.....	13.24	4.64	0.70	14.80	5.34	0.71
CB8.1E.....	19.70	7.70	0.33	17.76	3.74	0.00
CB8.1.....	27.27	9.37	1.76	23.49	5.87	1.11
EE3.1.....	42.53	16.26	8.41	31.01	16.62	8.22
EE3.2.....	24.90	12.38	3.84	50.40	16.41	3.07
CB7.1N.....	64.40	15.35	3.89	47.94	14.87	3.01
CB7.1.....	40.24	11.88	1.87	51.40	12.91	1.57
CB7.1S.....	48.11	11.16	2.27	33.63	9.14	0.54
CB5.4W.....	42.29	13.59	6.64	36.93	13.60	7.05
CB7.2.....	29.99	11.52	1.15	27.28	8.55	1.35
CB7.2E.....	26.19	10.12	1.17	23.84	7.17	0.76
CB7.3E.....	20.19	8.16	1.47	23.13	7.82	0.93
LE3.6.....	37.68	12.55	1.51	41.94	12.53	3.52
LE3.7.....	24.90	12.08	1.29	32.47	12.48	2.18
WE4.1.....	14.80	8.93	3.46	22.61	10.52	2.10
WE4.2.....	34.03	9.74	3.50	30.95	9.04	3.07
WE4.3.....	17.42	9.58	2.46	20.85	9.57	2.31
WE4.4.....	19.67	8.10	0.00	20.19	8.57	1.84
LE5.5.....	21.85	10.03	0.00	29.60	6.90	0.00



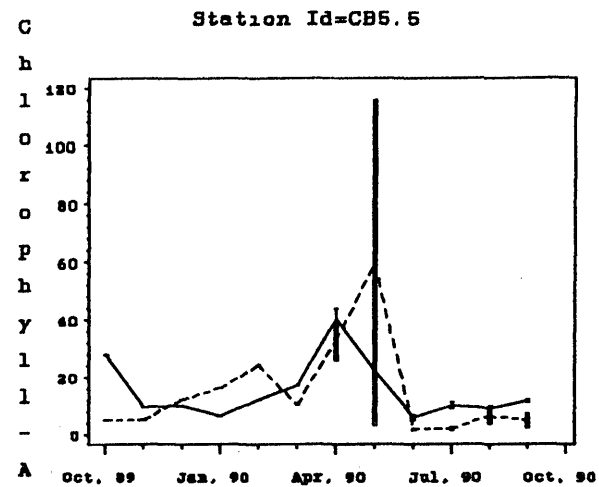
Month

— Surface - - - - Bottom



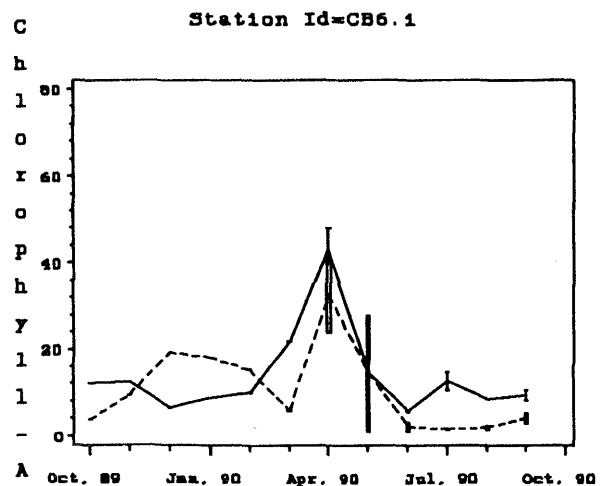
Month

— Surface - - - - Bottom



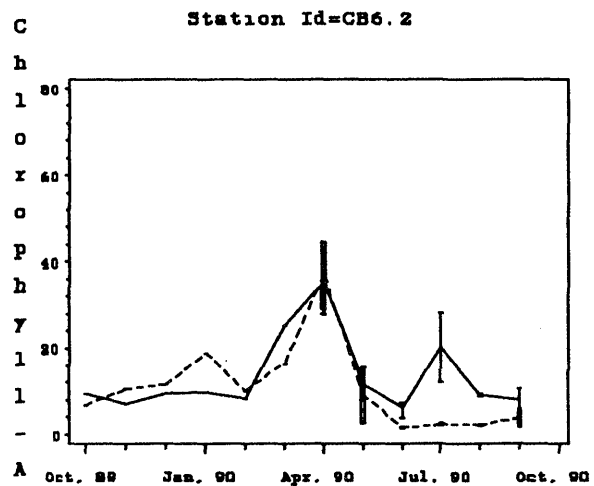
Month

— Surface - - - - Bottom



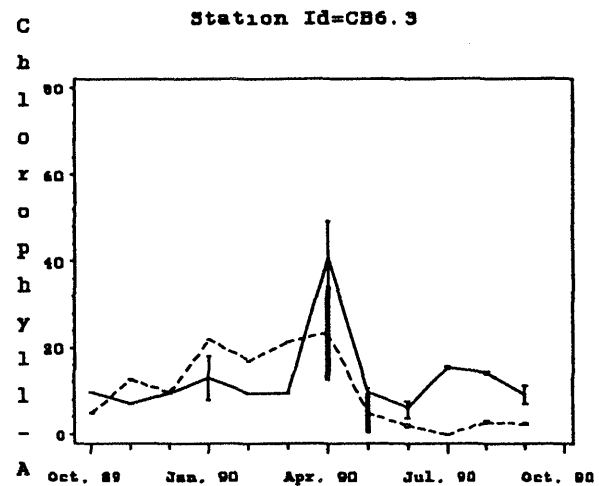
Month

— Surface - - - - Bottom



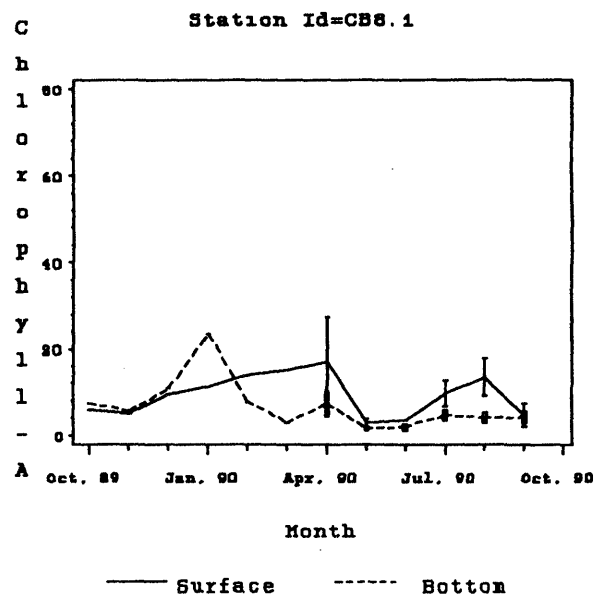
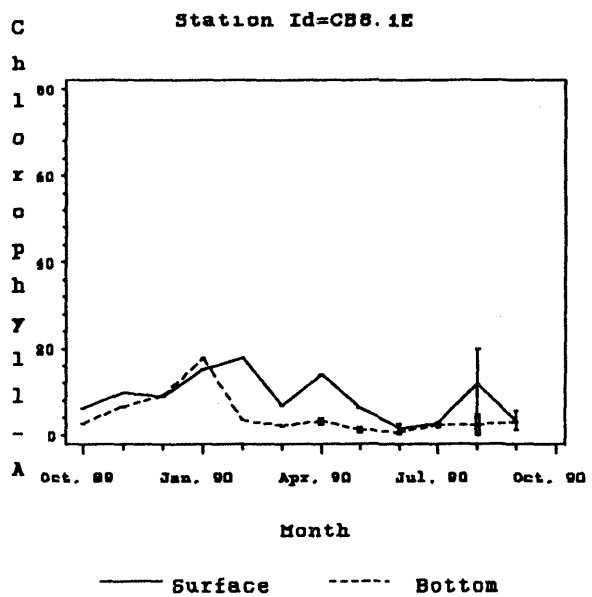
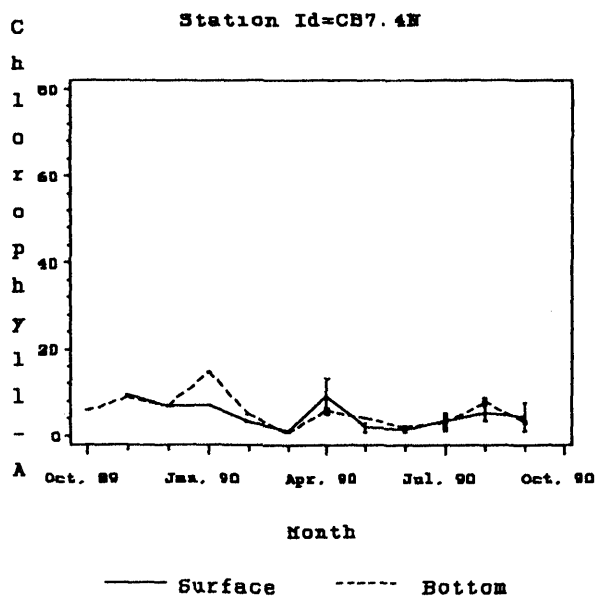
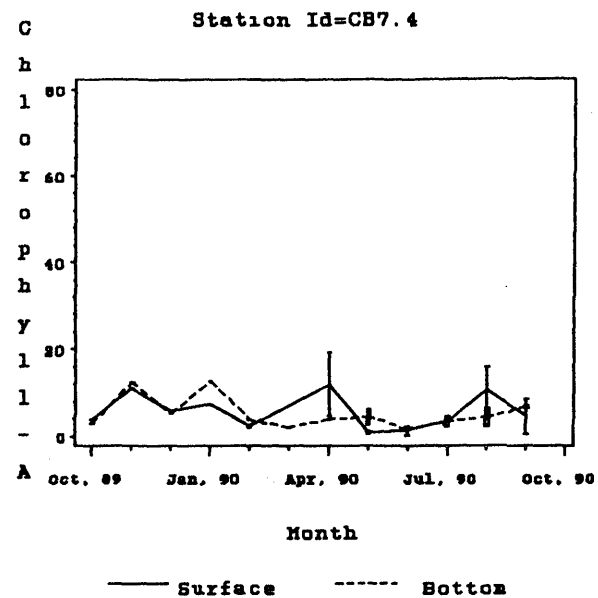
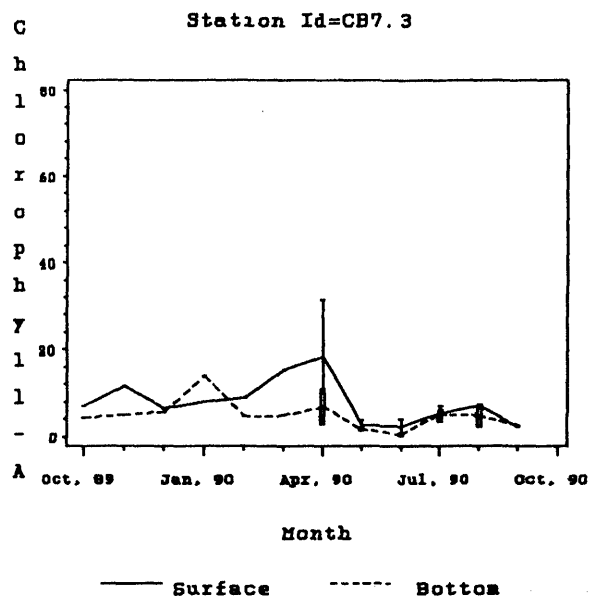
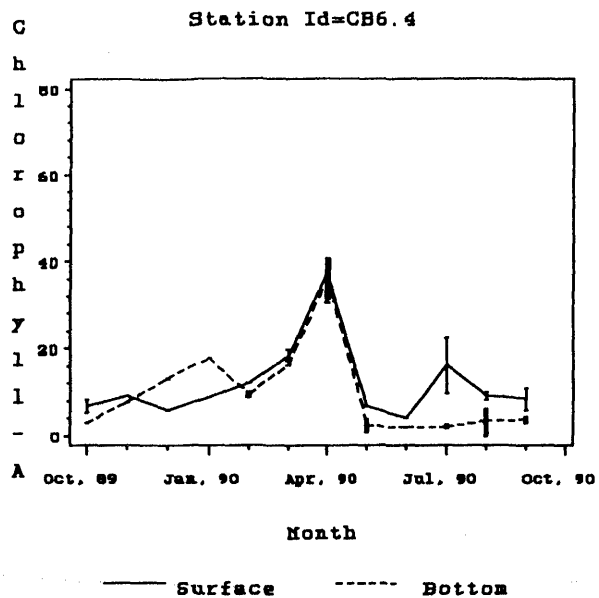
Month

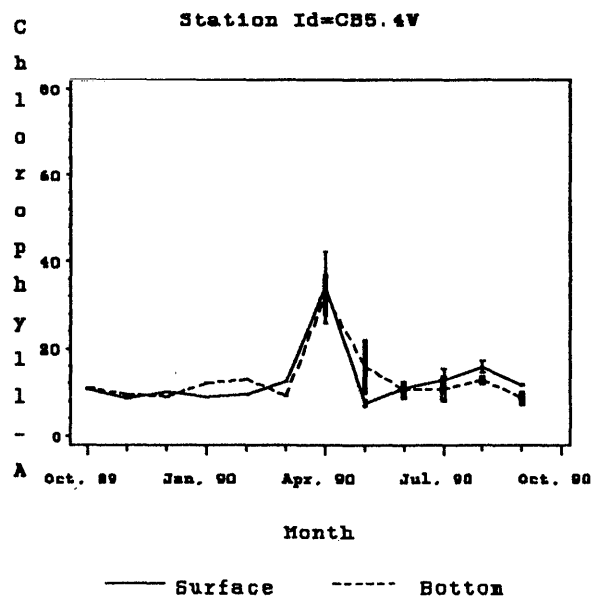
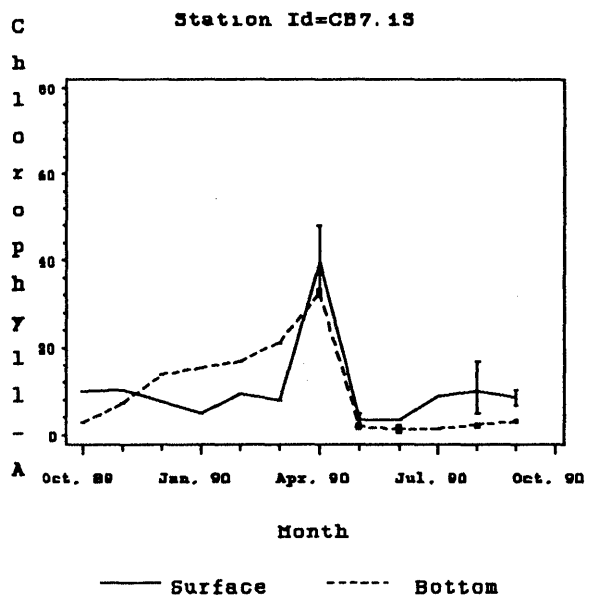
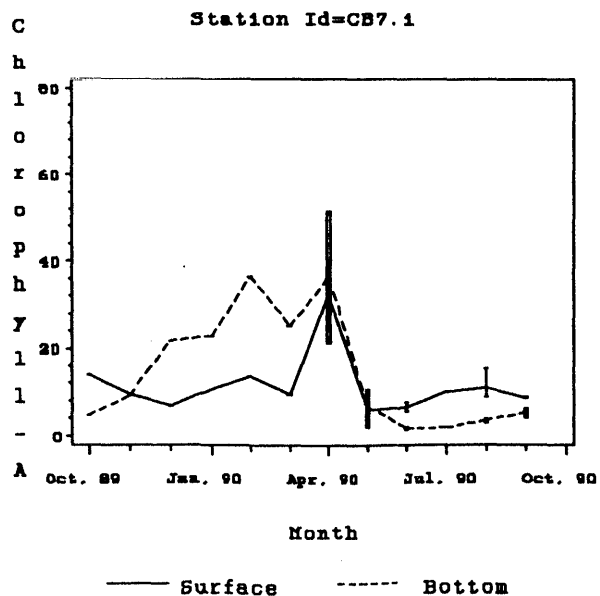
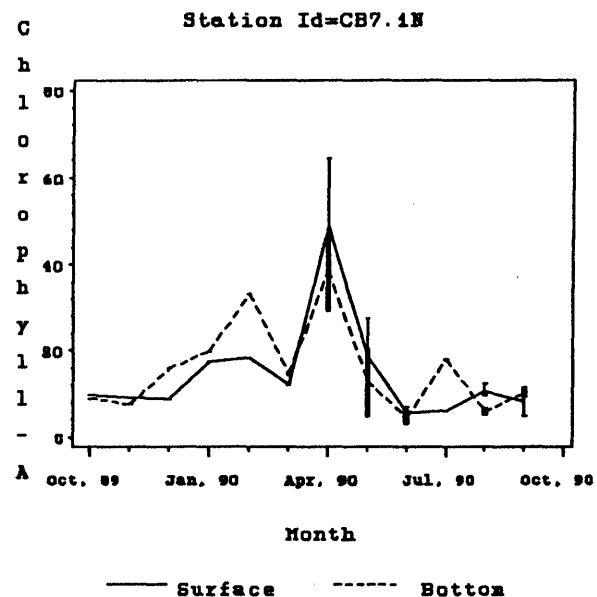
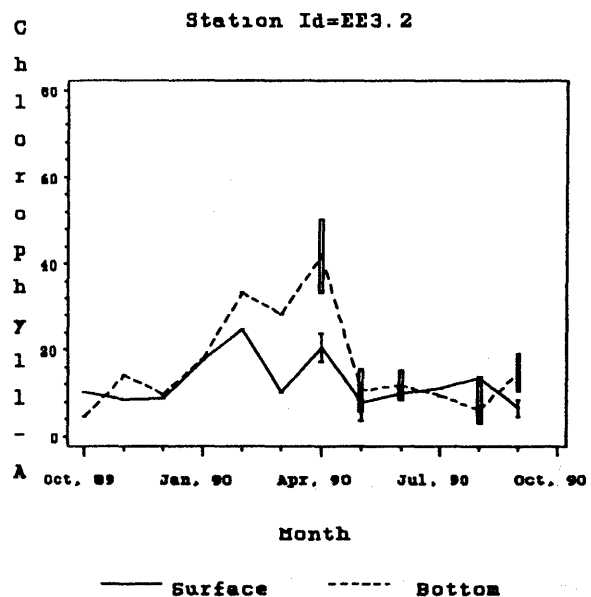
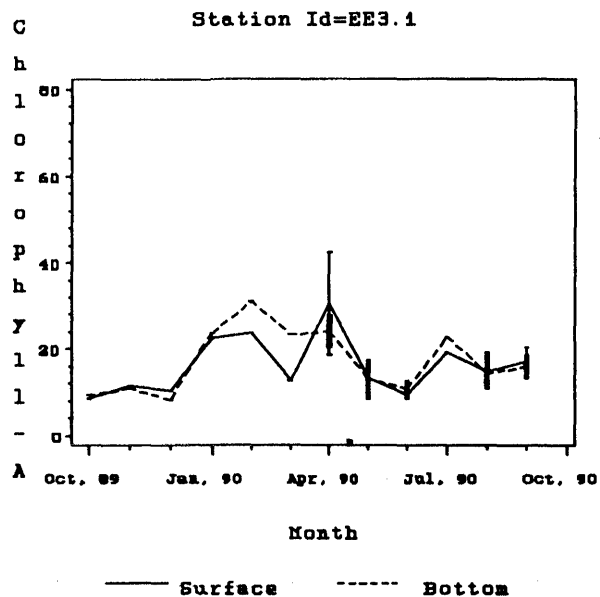
— Surface - - - - Bottom

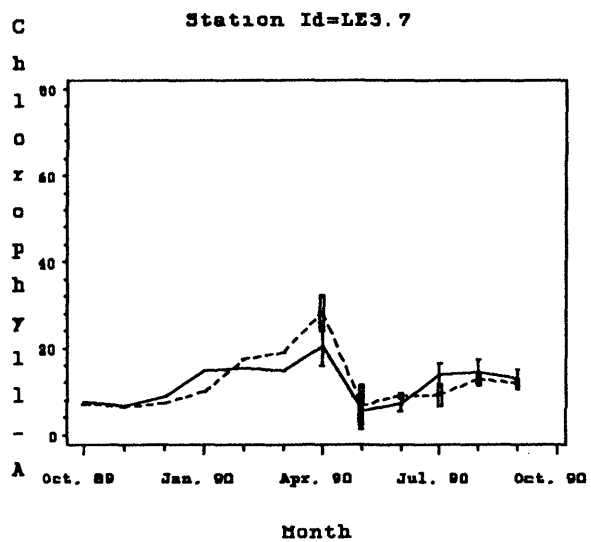
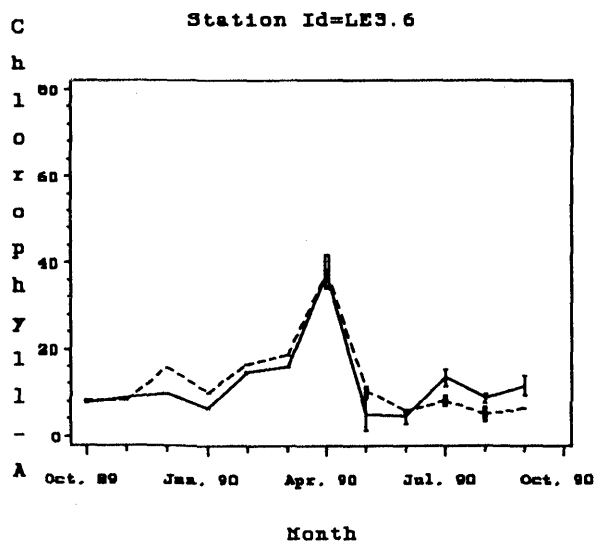
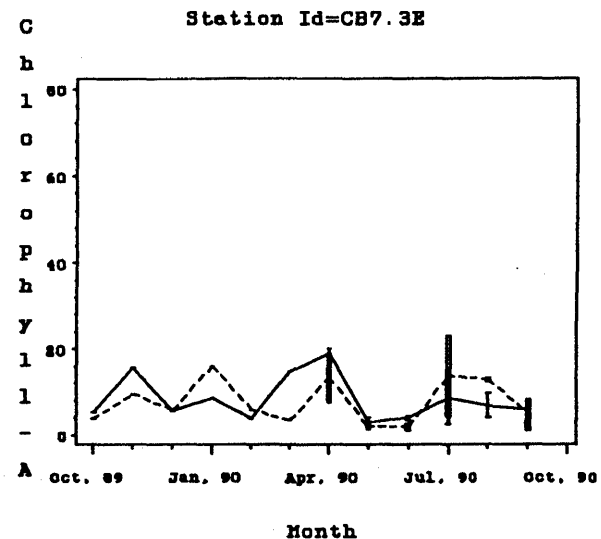
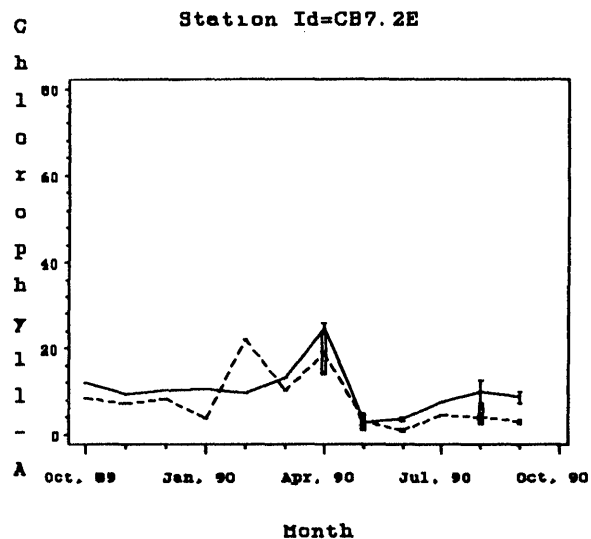
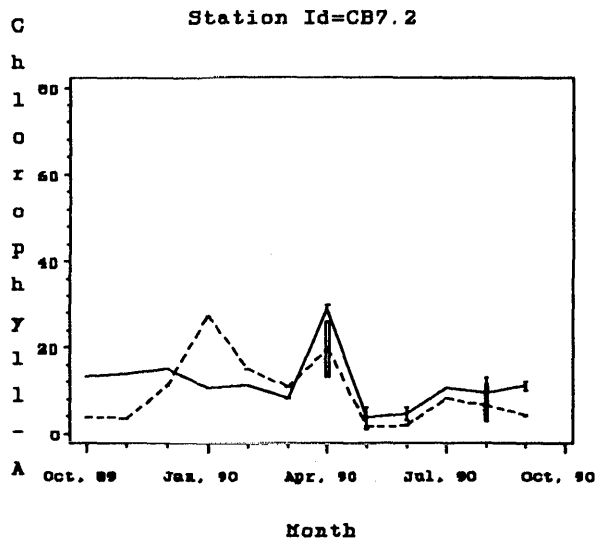


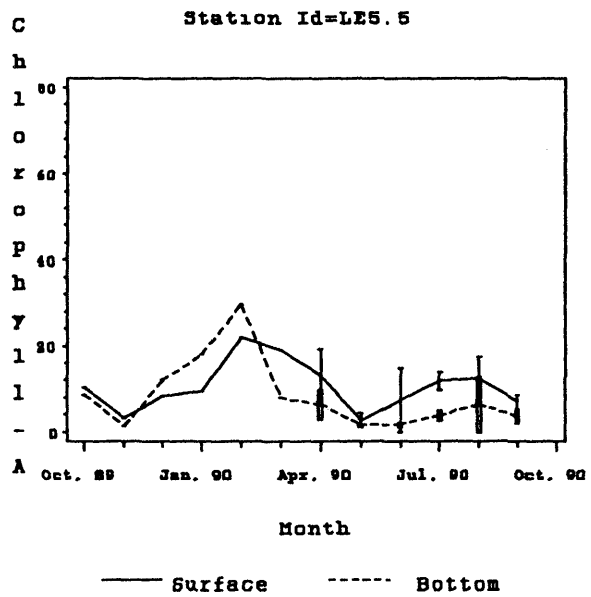
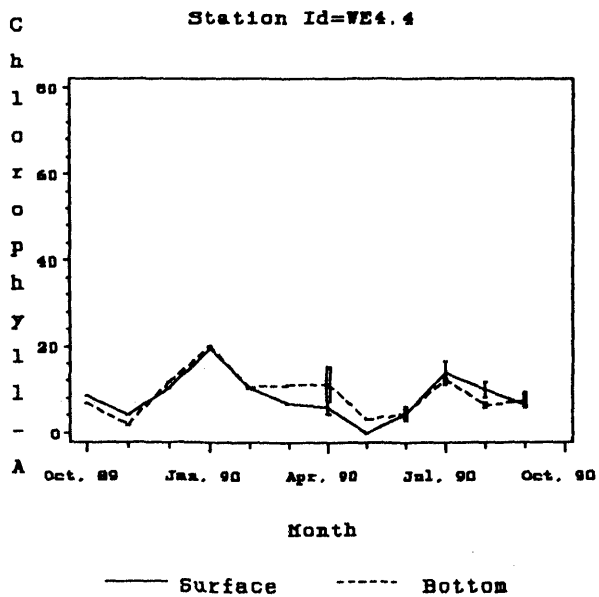
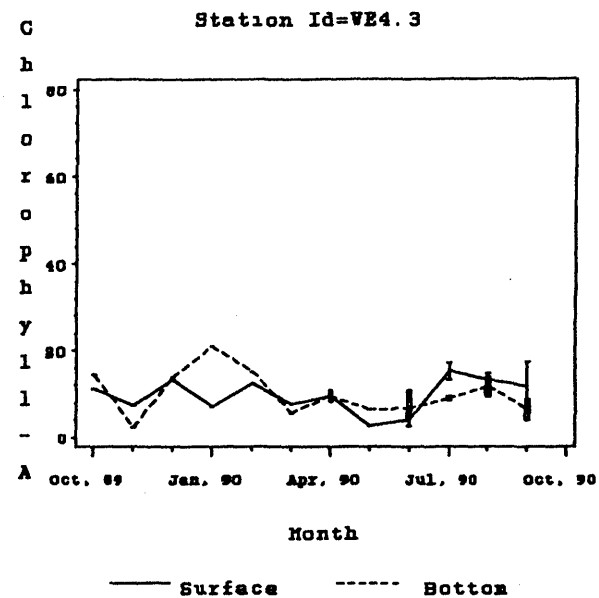
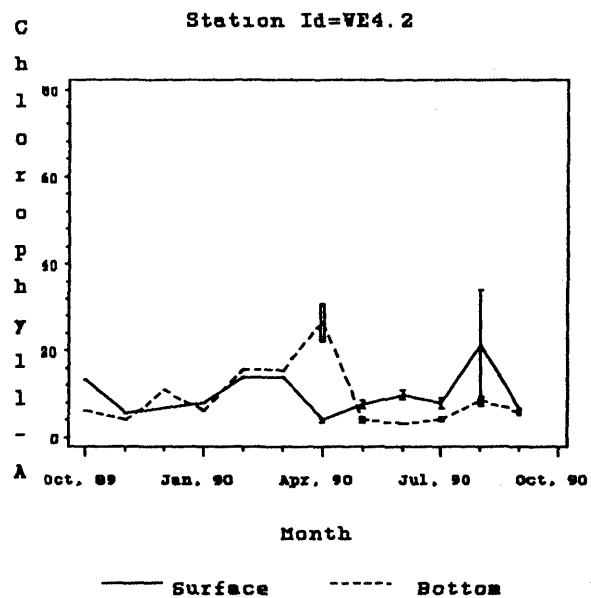
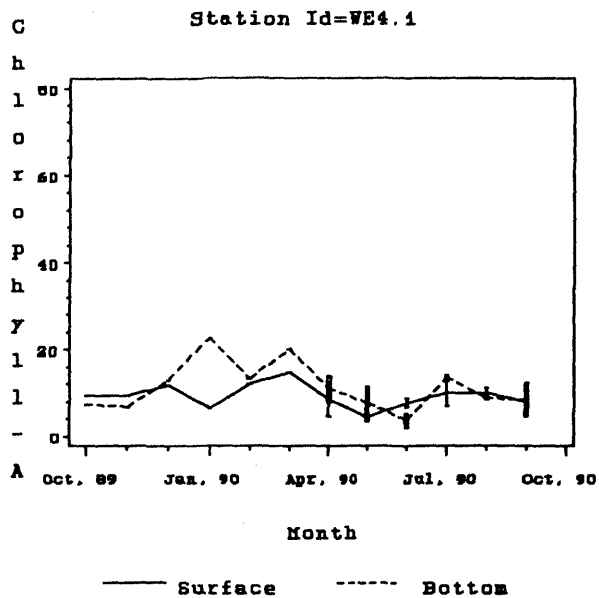
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— Surface - - - - Bottom









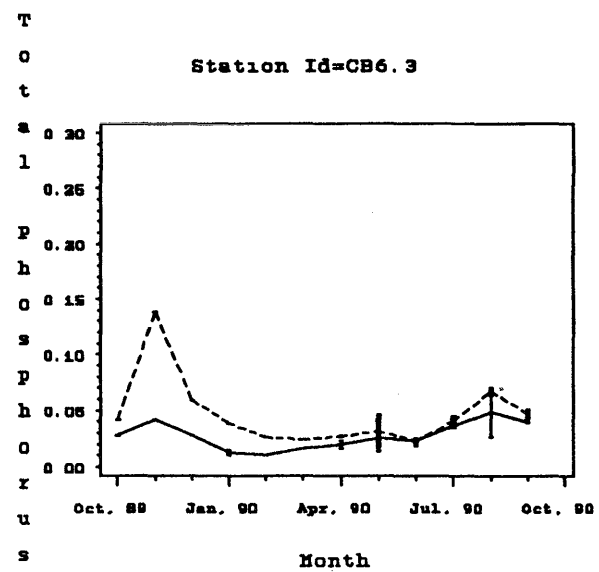
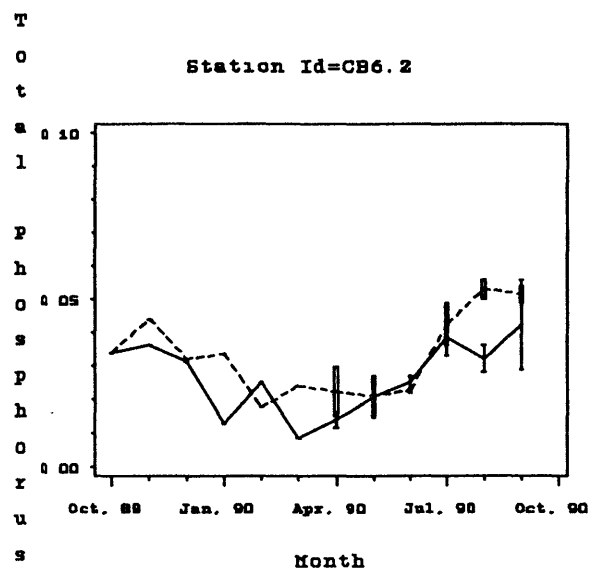
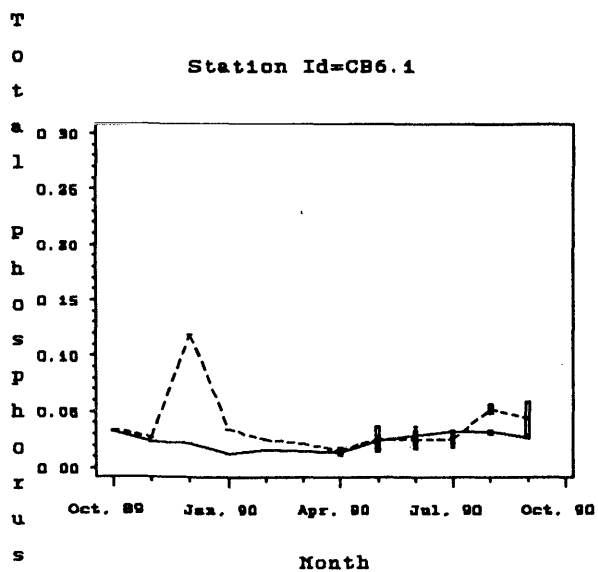
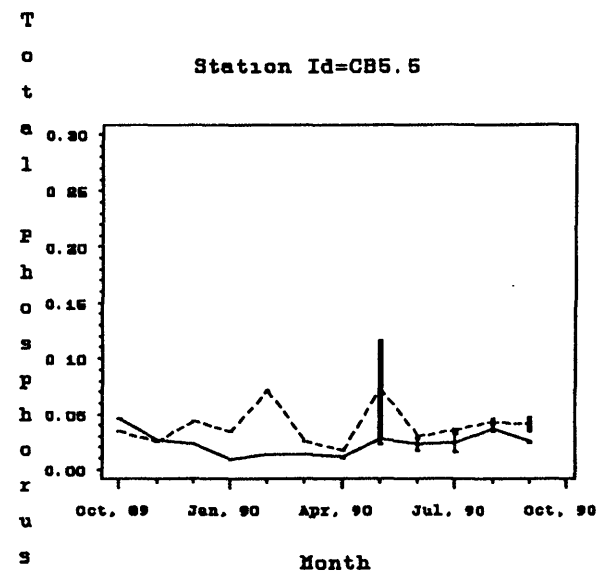
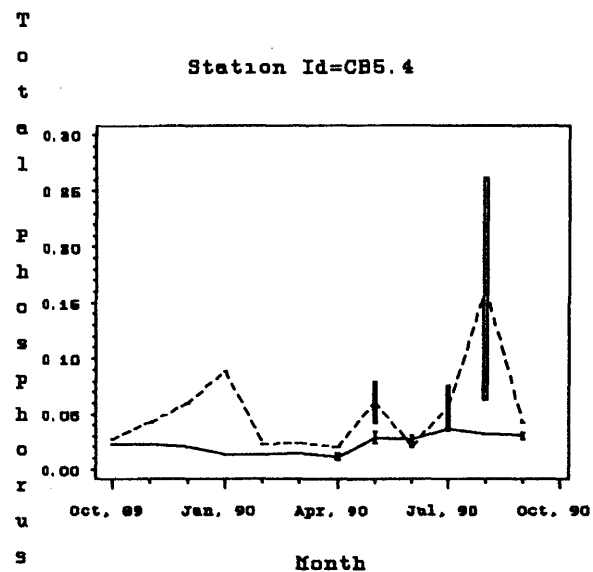
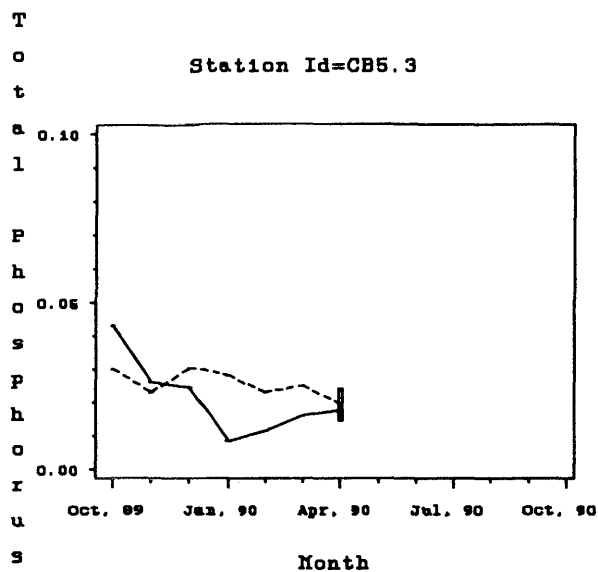
TOTAL PHOSPHORUS

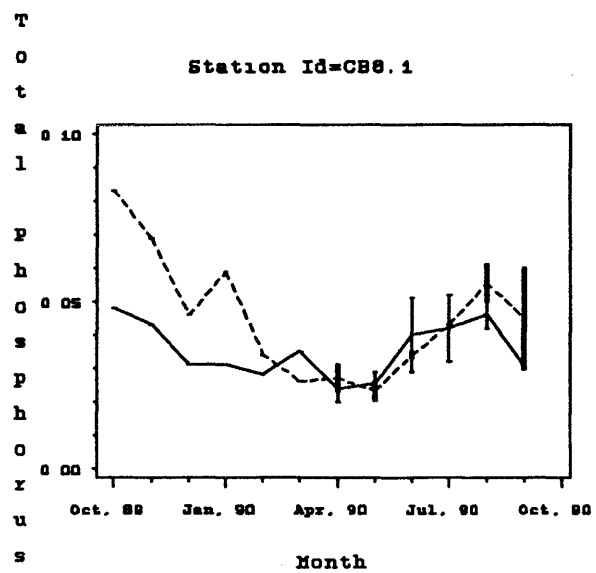
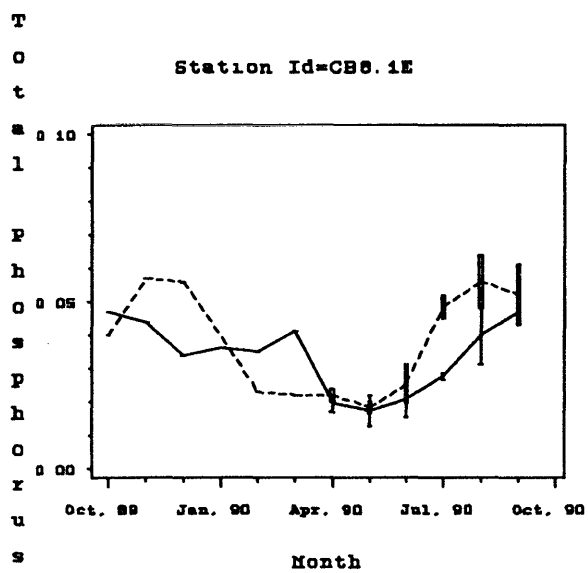
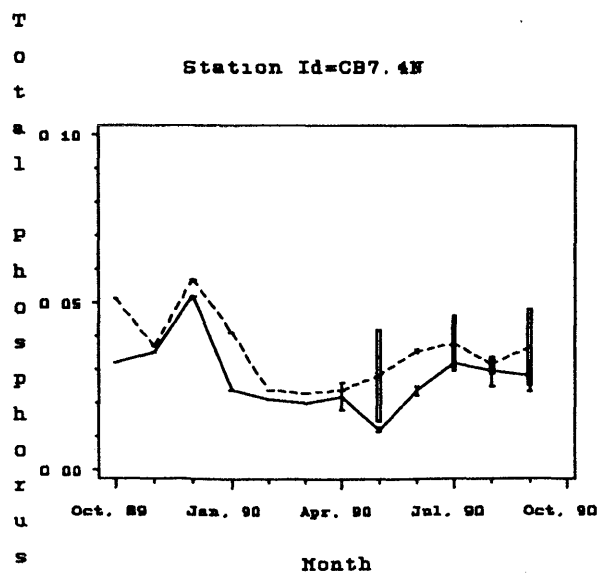
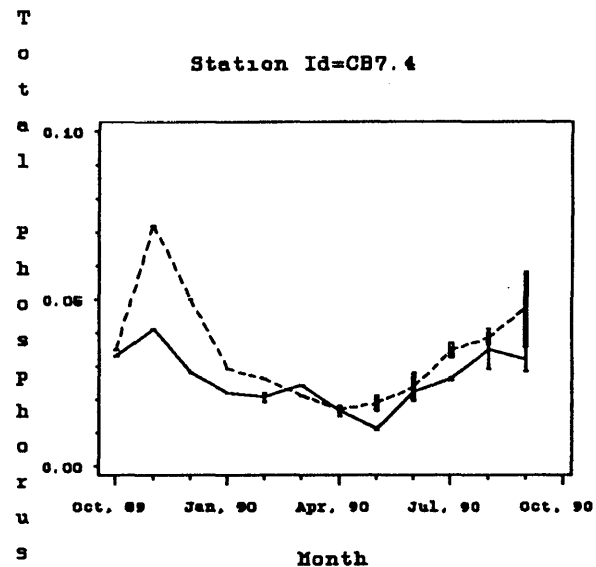
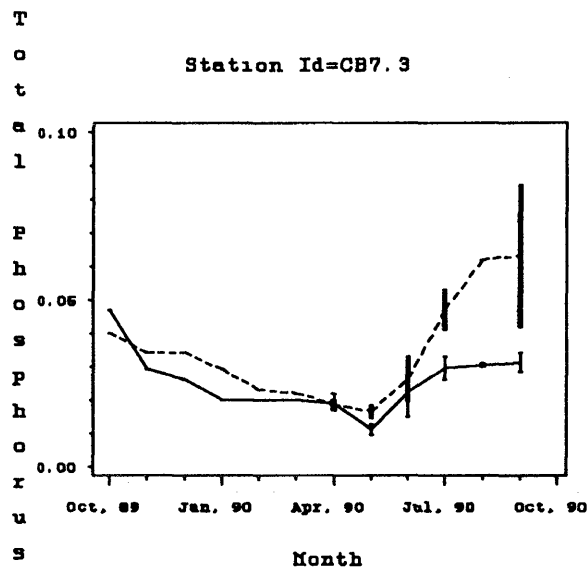
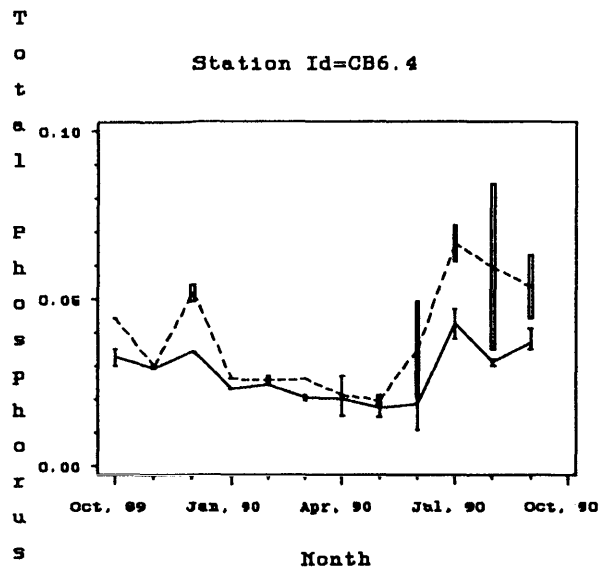
Total Phosphorus is the sum of
Particulate Phosphorus and Total Dissolved Phosphorus.

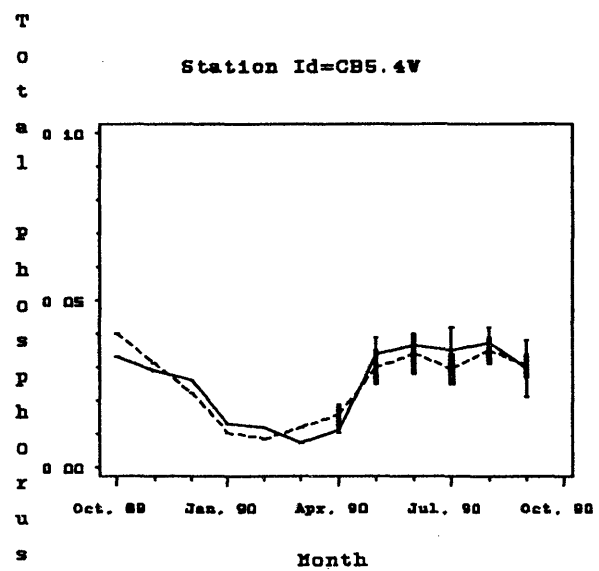
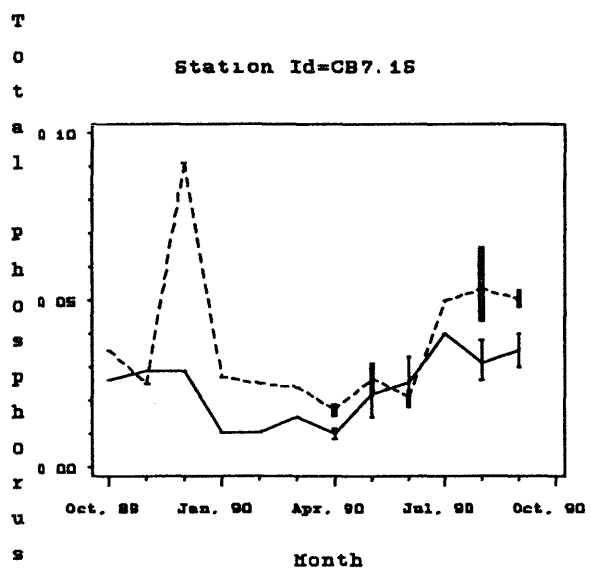
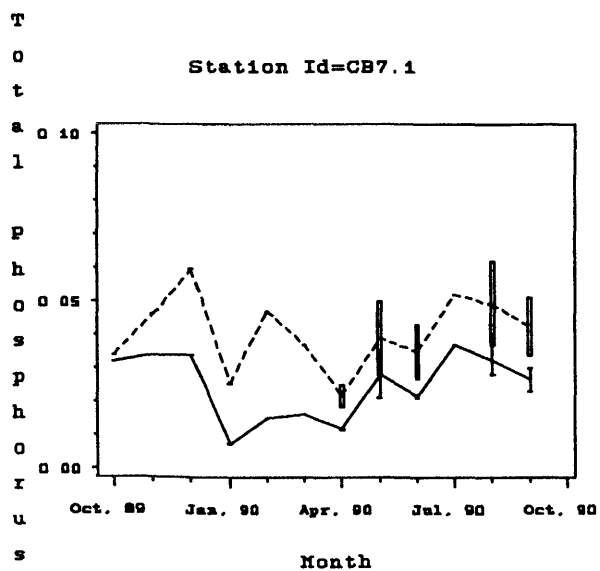
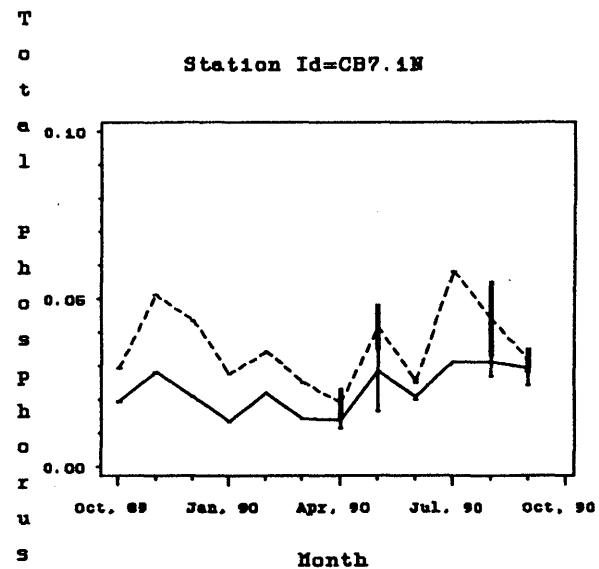
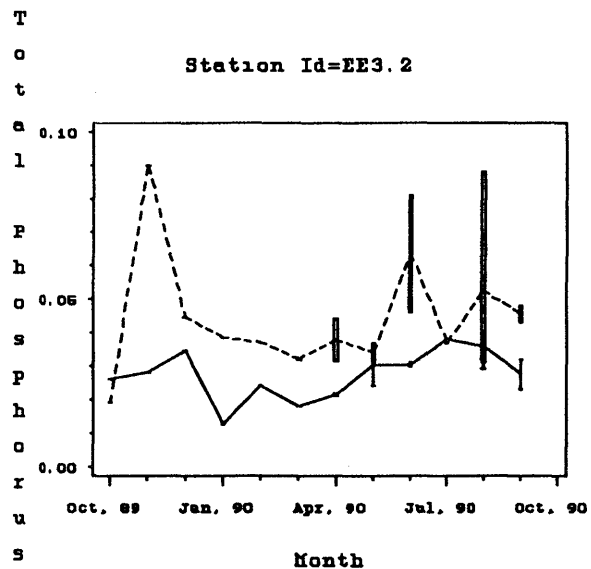
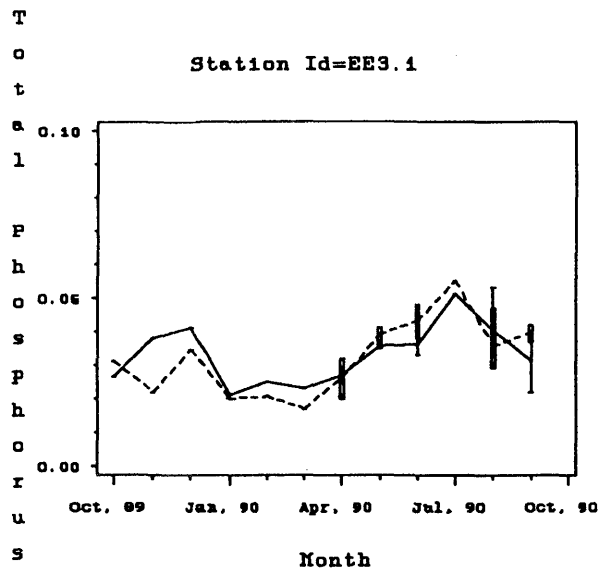
Values reported as mg/l.

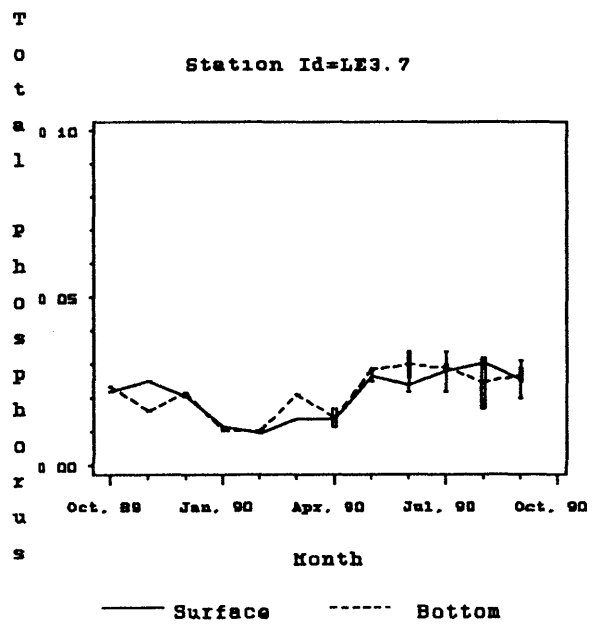
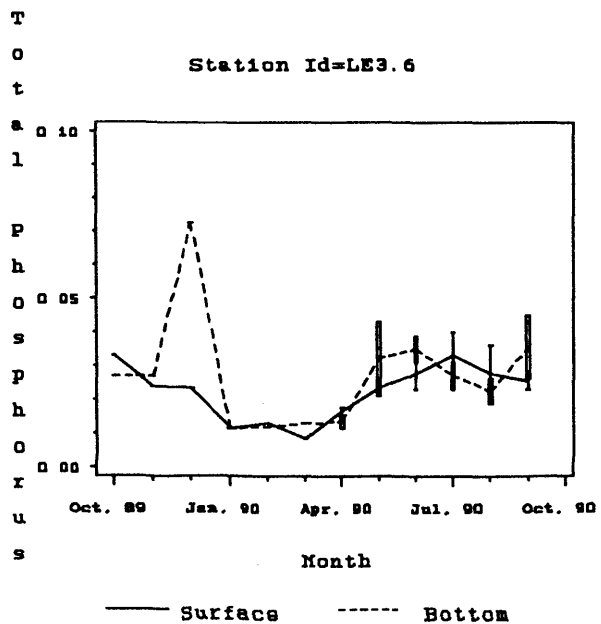
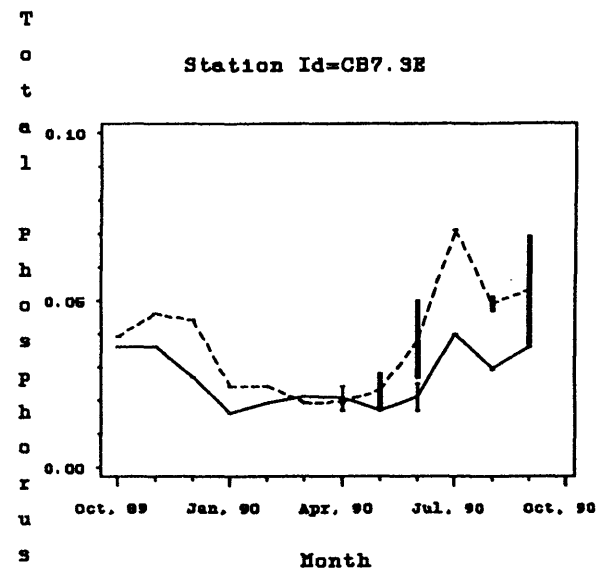
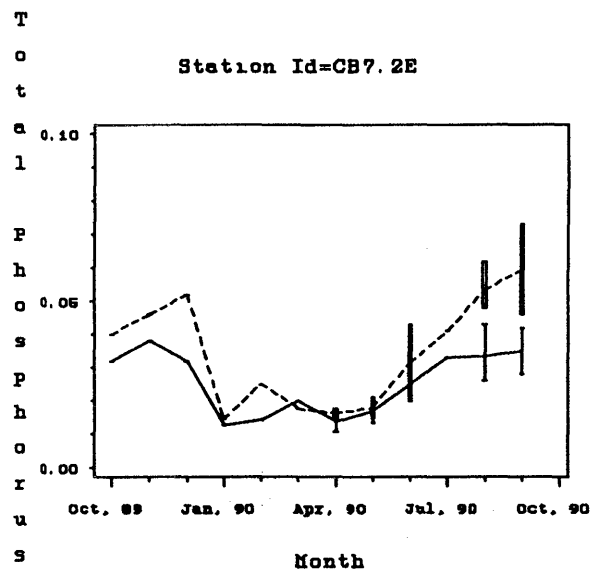
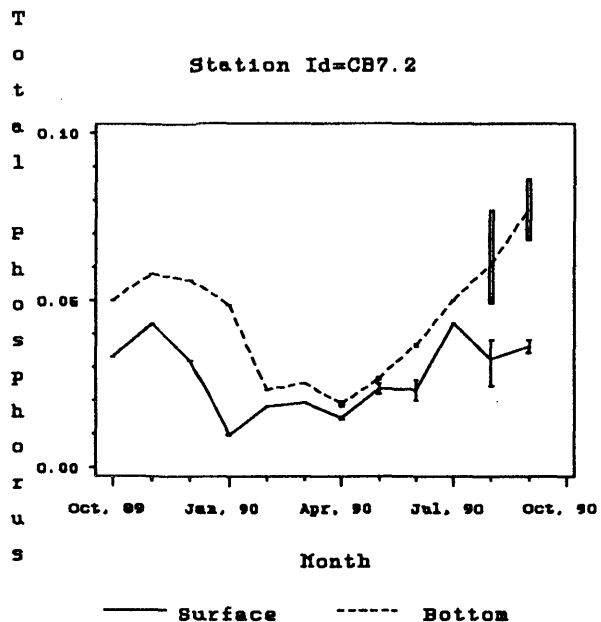
Total Phosphorus
October, 1989 - September, 1990

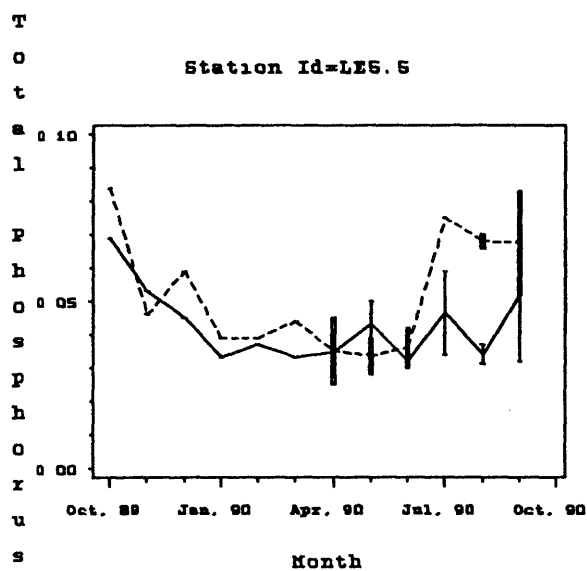
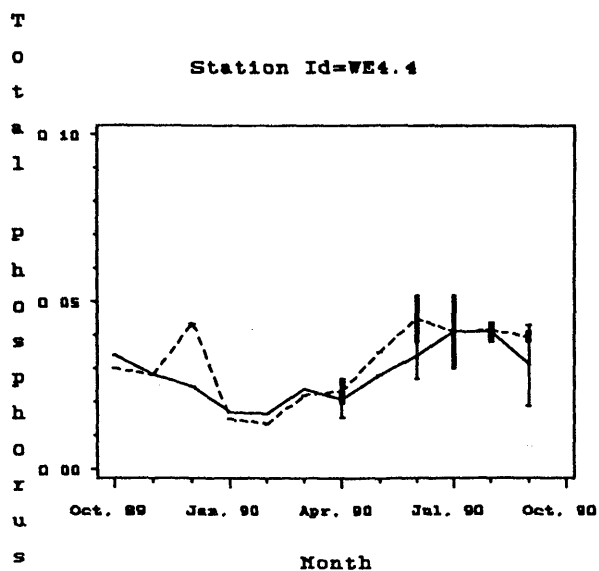
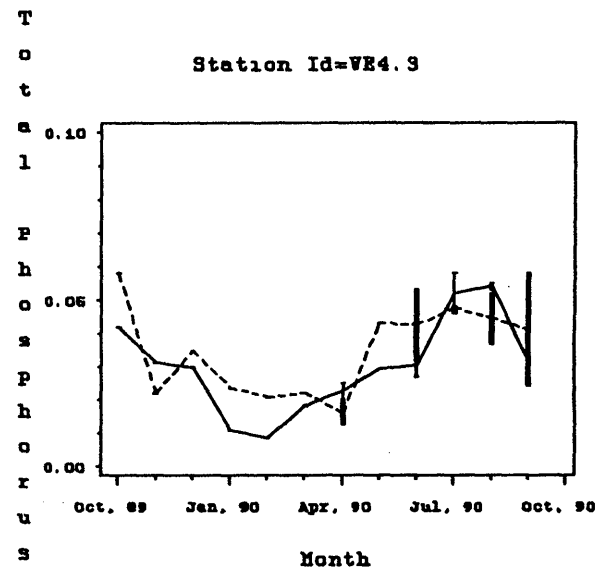
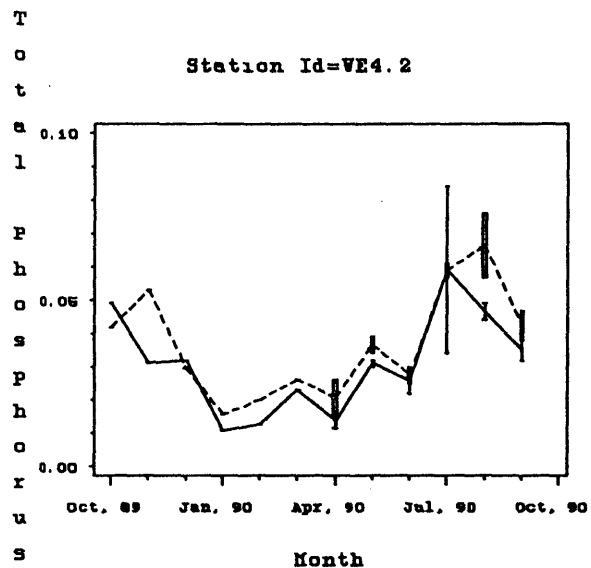
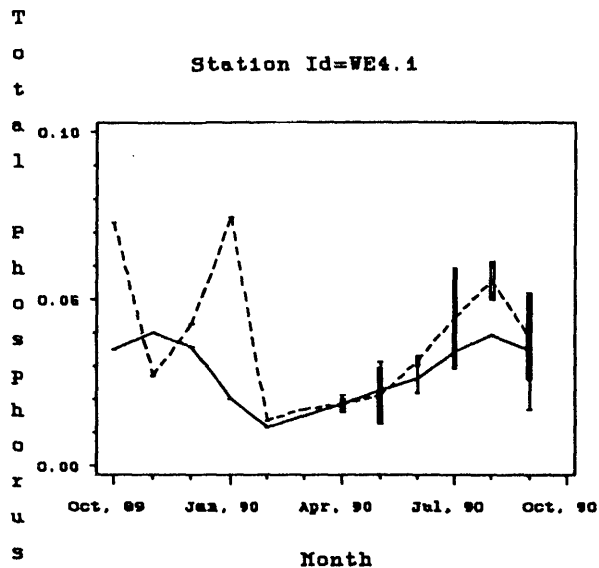
Station	Total Phosphorus (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.0430	0.0206	0.0085	0.0305	0.0247	0.0145
CB5.4.....	0.0380	0.0250	0.0085	0.2620	0.0554	0.0200
CB5.5.....	0.0460	0.0236	0.0085	0.1160	0.0394	0.0165
CB6.1.....	0.0370	0.0241	0.0115	0.1185	0.0350	0.0135
CB6.2.....	0.0560	0.0272	0.0085	0.0560	0.0339	0.0150
CB6.3.....	0.0700	0.0278	0.0105	0.1380	0.0442	0.0170
CB6.4.....	0.0470	0.0275	0.0105	0.0840	0.0422	0.0180
CB7.3.....	0.0470	0.0245	0.0095	0.0840	0.0345	0.0145
CB7.4.....	0.0410	0.0250	0.0105	0.0720	0.0337	0.0160
CB7.4N.....	0.0520	0.0266	0.0115	0.0570	0.0345	0.0145
CB8.1E.....	0.0490	0.0323	0.0125	0.0640	0.0378	0.0165
CB8.1.....	0.0520	0.0351	0.0200	0.0830	0.0429	0.0205
EE3.1.....	0.0530	0.0337	0.0210	0.0550	0.0334	0.0170
EE3.2.....	0.0400	0.0282	0.0125	0.0900	0.0452	0.0170
CB7.1N.....	0.0400	0.0234	0.0115	0.0580	0.0351	0.0145
CB7.1.....	0.0400	0.0249	0.0075	0.0620	0.0402	0.0185
CB7.1S.....	0.0400	0.0243	0.0085	0.0910	0.0371	0.0155
CB5.4W.....	0.0420	0.0271	0.0075	0.0400	0.0263	0.0085
CB7.2.....	0.0430	0.0271	0.0095	0.0860	0.0450	0.0180
CB7.2E.....	0.0430	0.0257	0.0105	0.0730	0.0359	0.0145
CB7.3E.....	0.0400	0.0254	0.0160	0.0710	0.0372	0.0180
LE3.6.....	0.0400	0.0234	0.0085	0.0725	0.0275	0.0115
LE3.7.....	0.0340	0.0222	0.0095	0.0340	0.0228	0.0105
WE4.1.....	0.0520	0.0281	0.0115	0.0745	0.0370	0.0125
WE4.2.....	0.0840	0.0322	0.0105	0.0760	0.0384	0.0155
WE4.3.....	0.0580	0.0323	0.0085	0.0580	0.0356	0.0125
WE4.4.....	0.0470	0.0299	0.0155	0.0520	0.0334	0.0135
LE5.5.....	0.0720	0.0419	0.0280	0.0840	0.0509	0.0250









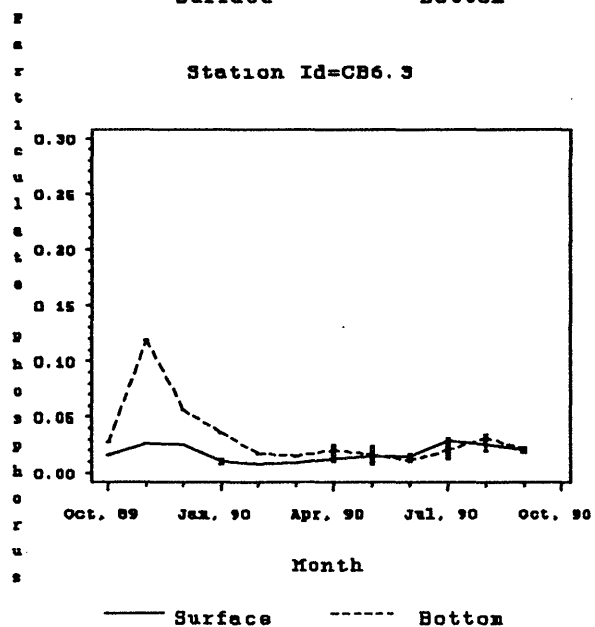
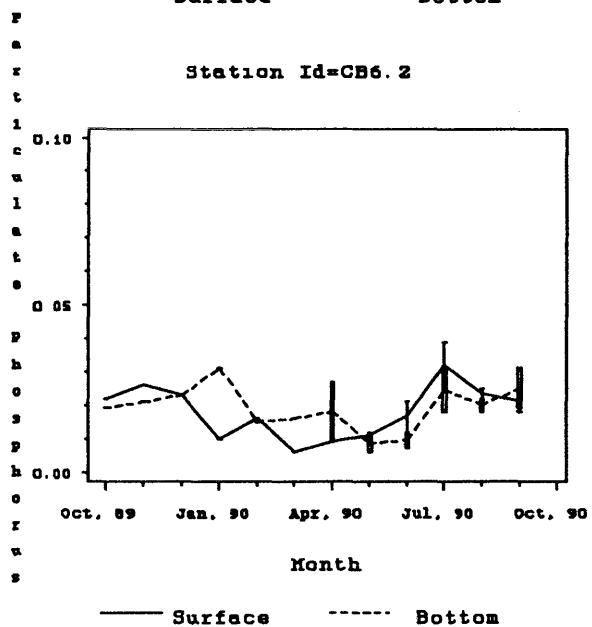
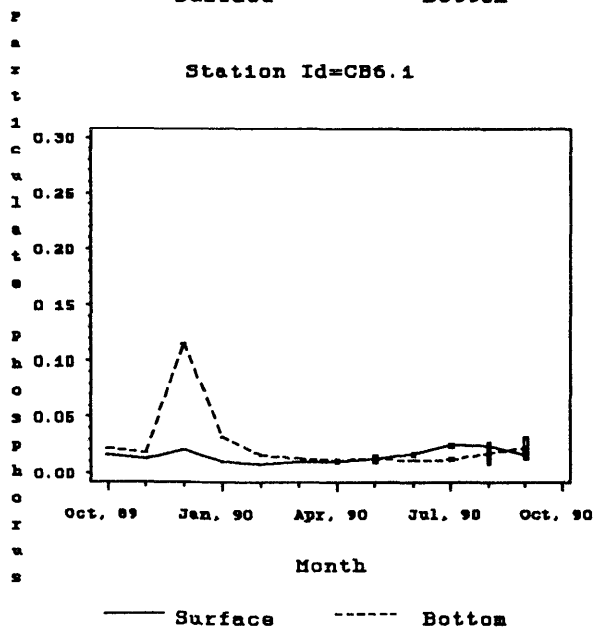
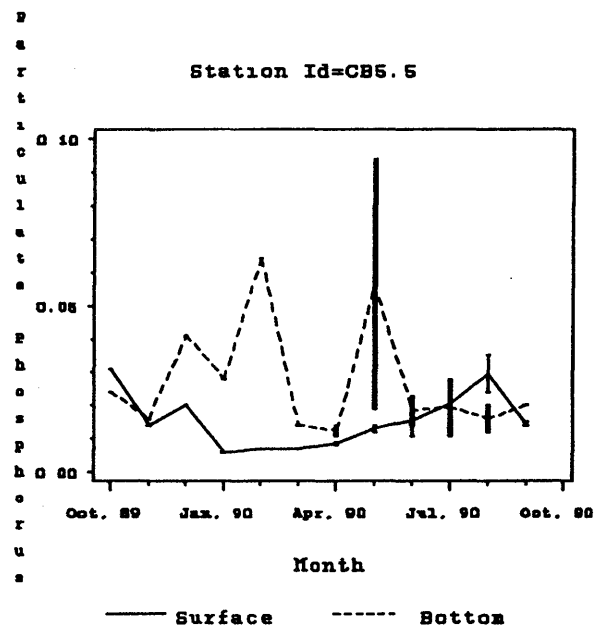
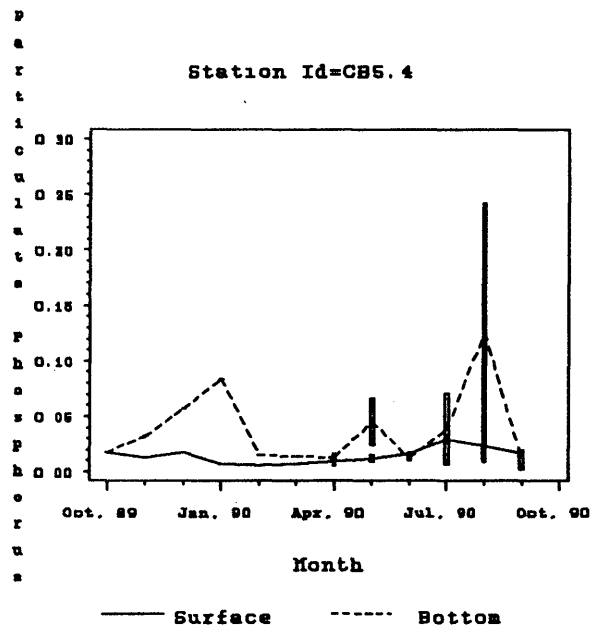
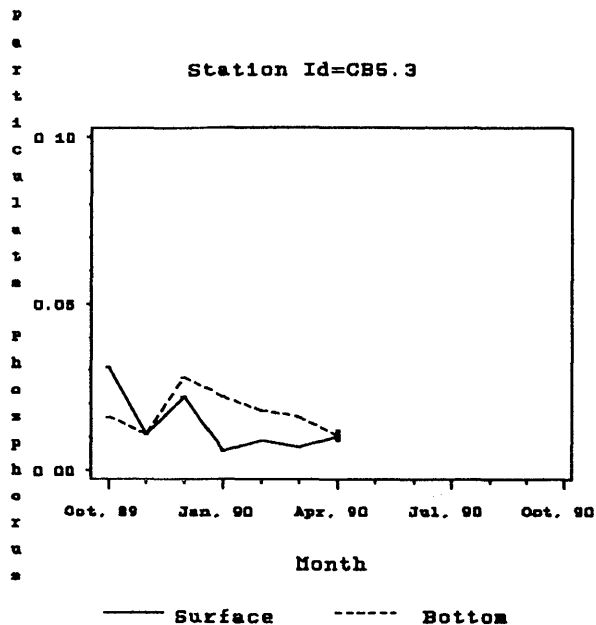


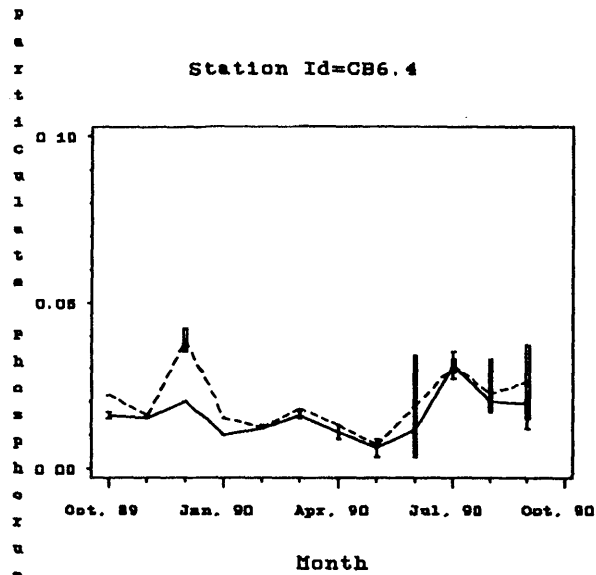
PARTICULATE PHOSPHORUS

Values reported as mg/l.

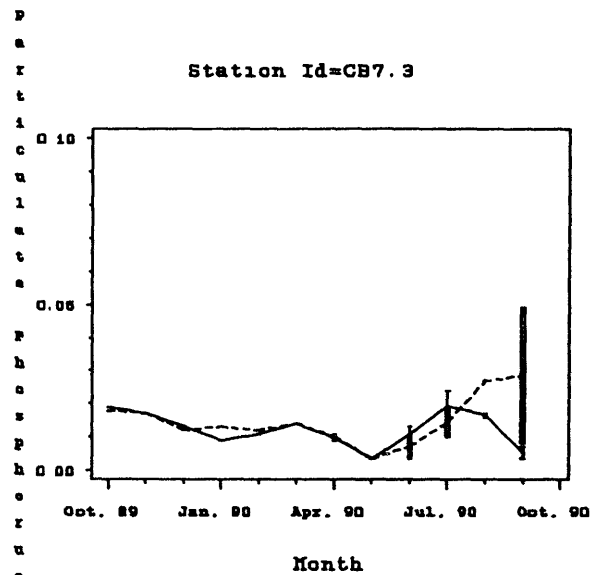
Particulate Phosphorus
October, 1989 - September, 1990

Station	Particulate Phosphorus (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.0310	0.0132	0.0060	0.0280	0.0165	0.0090
CB5.4.....	0.0320	0.0157	0.0060	0.2420	0.0395	0.0025
CB5.5.....	0.0350	0.0159	0.0060	0.0940	0.0263	0.0110
CB6.1.....	0.0260	0.0157	0.0080	0.1160	0.0212	0.0080
CB6.2.....	0.0390	0.0182	0.0060	0.0310	0.0187	0.0060
CB6.3.....	0.0320	0.0174	0.0080	0.1190	0.0283	0.0080
CB6.4.....	0.0350	0.0158	0.0035	0.0420	0.0210	0.0035
CB7.3.....	0.0240	0.0117	0.0035	0.0490	0.0141	0.0035
CB7.4.....	0.0230	0.0089	0.0035	0.0520	0.0124	0.0035
CB7.4N.....	0.0290	0.0091	0.0035	0.0350	0.0157	0.0035
CB8.1E.....	0.0230	0.0129	0.0035	0.0390	0.0147	0.0035
CB8.1.....	0.0310	0.0169	0.0035	0.0480	0.0199	0.0035
EE3.1.....	0.0460	0.0241	0.0120	0.0460	0.0231	0.0080
EE3.2.....	0.0350	0.0192	0.0080	0.0800	0.0345	0.0140
CB7.1N.....	0.0250	0.0159	0.0070	0.0500	0.0265	0.0120
CB7.1.....	0.0280	0.0159	0.0050	0.0570	0.0244	0.0110
CB7.1S.....	0.0320	0.0153	0.0060	0.0490	0.0193	0.0080
CB5.4W.....	0.0310	0.0177	0.0050	0.0300	0.0181	0.0060
CB7.2.....	0.0310	0.0168	0.0070	0.0480	0.0269	0.0100
CB7.2E.....	0.0300	0.0159	0.0070	0.0380	0.0181	0.0050
CB7.3E.....	0.0280	0.0132	0.0080	0.0330	0.0182	0.0070
LE3.6.....	0.0320	0.0163	0.0060	0.0700	0.0200	0.0070
LE3.7.....	0.0290	0.0153	0.0070	0.0250	0.0162	0.0070
WE4.1.....	0.0330	0.0181	0.0080	0.0720	0.0239	0.0090
WE4.2.....	0.0680	0.0190	0.0060	0.0460	0.0204	0.0100
WE4.3.....	0.0360	0.0194	0.0060	0.0420	0.0231	0.0090
WE4.4.....	0.0300	0.0190	0.0090	0.0440	0.0214	0.0100
LE5.5.....	0.0500	0.0191	0.0090	0.0520	0.0254	0.0070

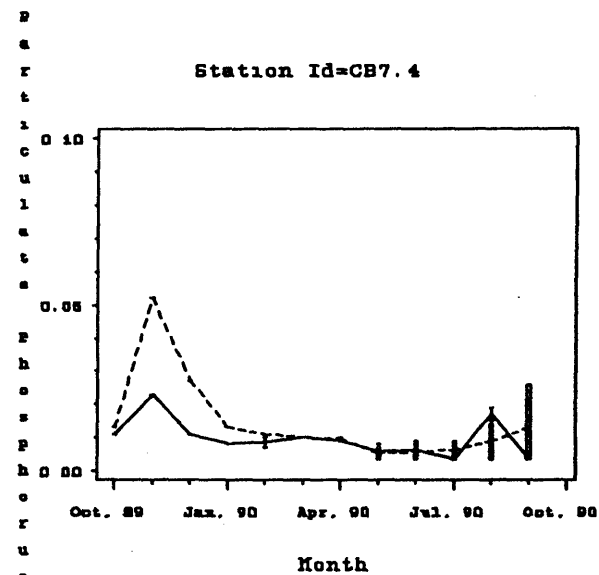




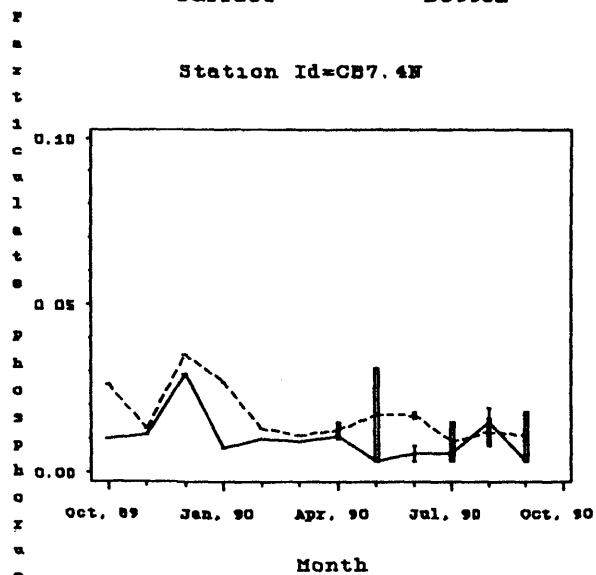
— Surface - - - - Bottom



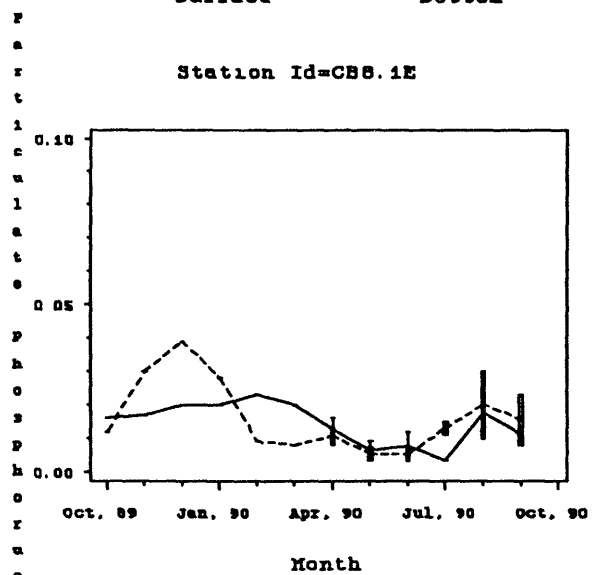
— Surface - - - - Bottom



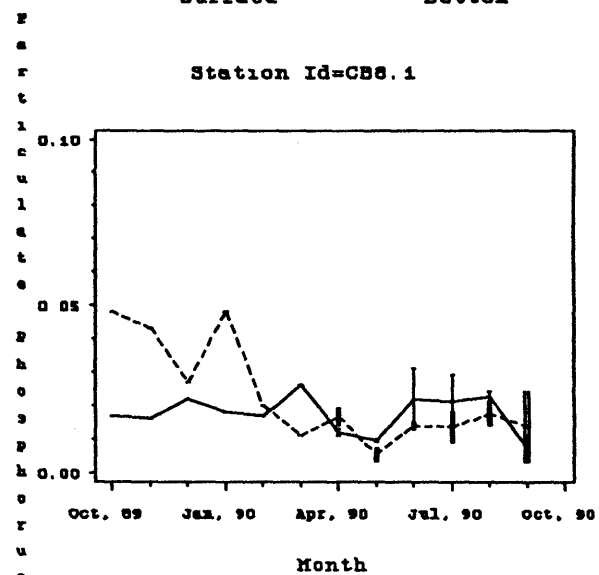
— Surface - - - - Bottom



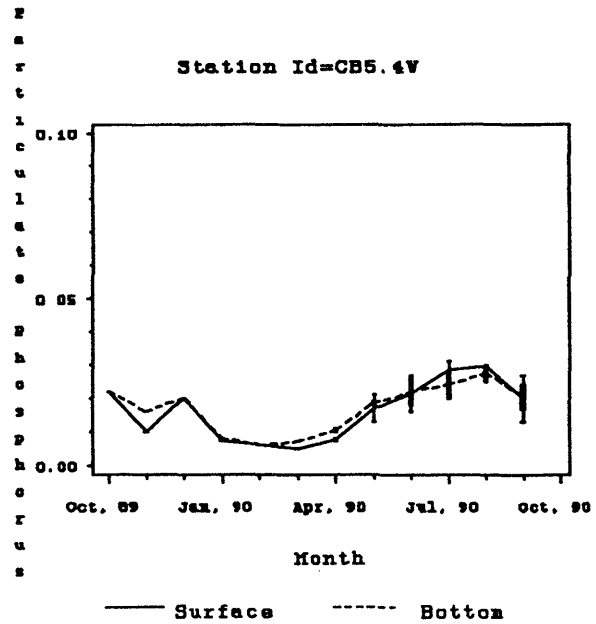
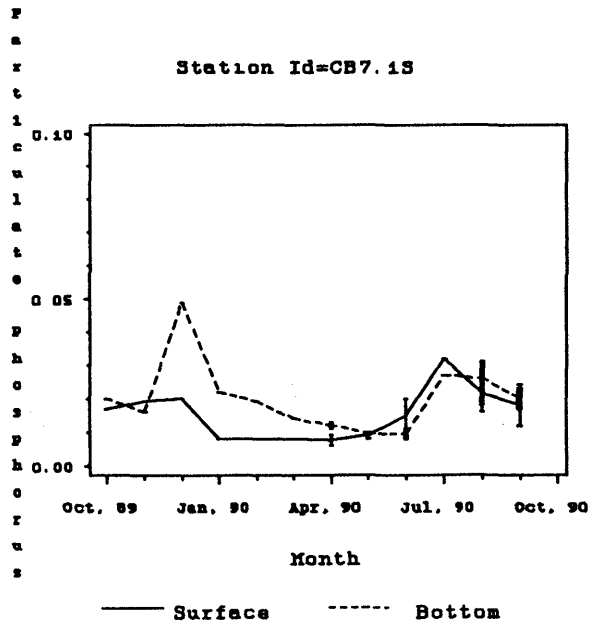
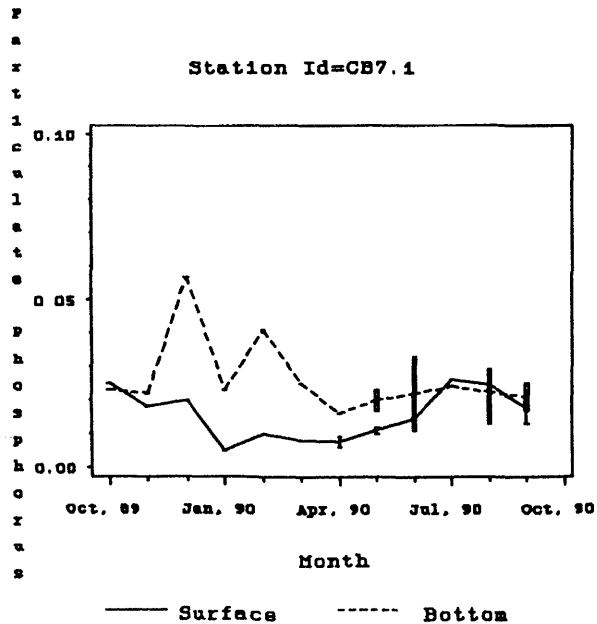
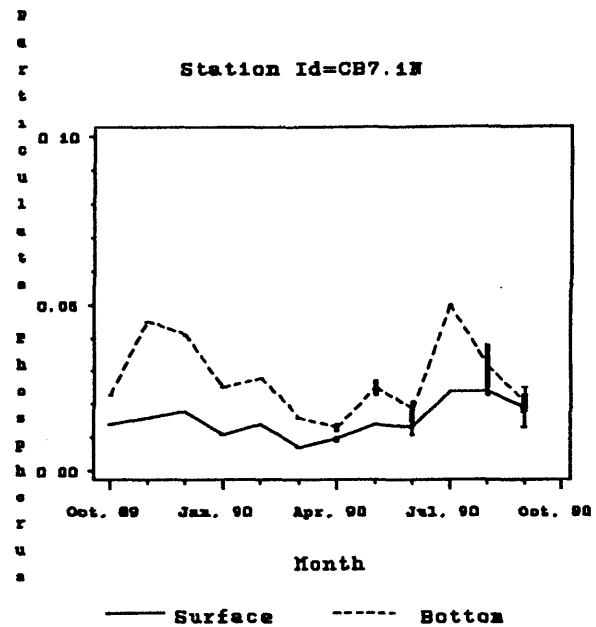
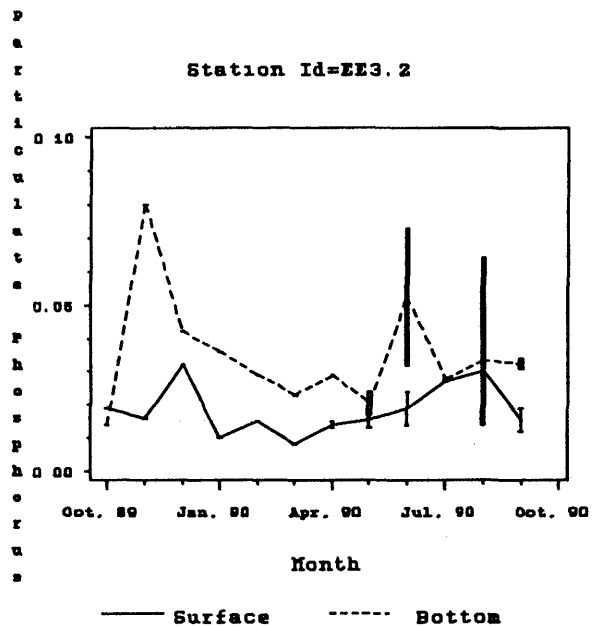
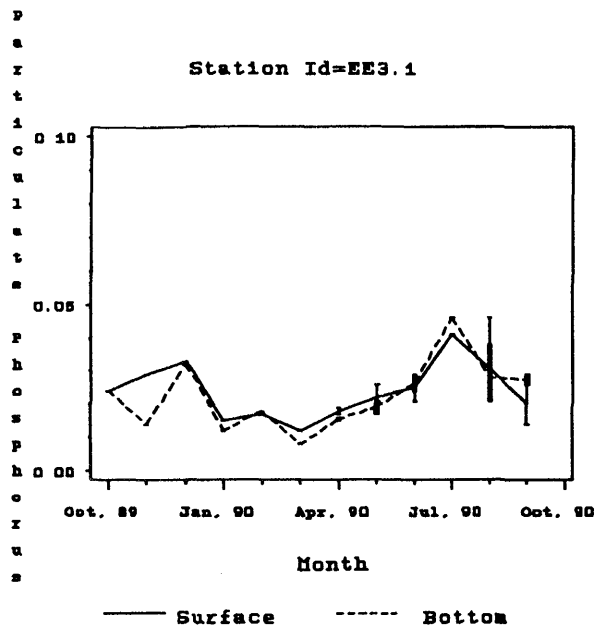
— Surface - - - - Bottom



— Surface - - - - Bottom

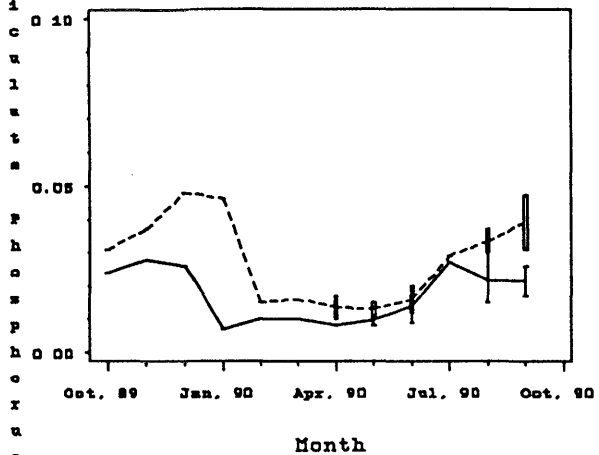


— Surface - - - - Bottom



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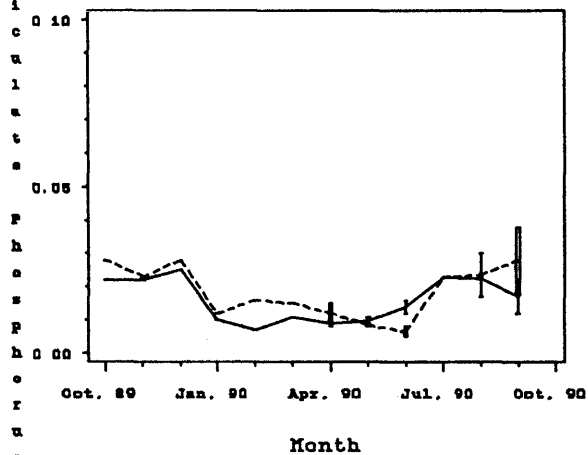
Station Id=CB7.2



— Surface - - - - Bottom

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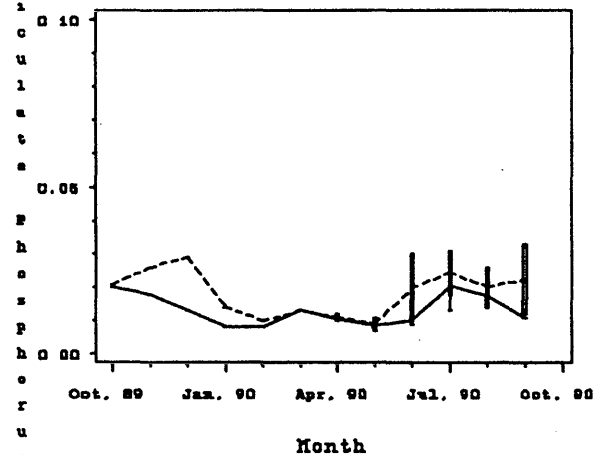
Station Id=CB7.2E



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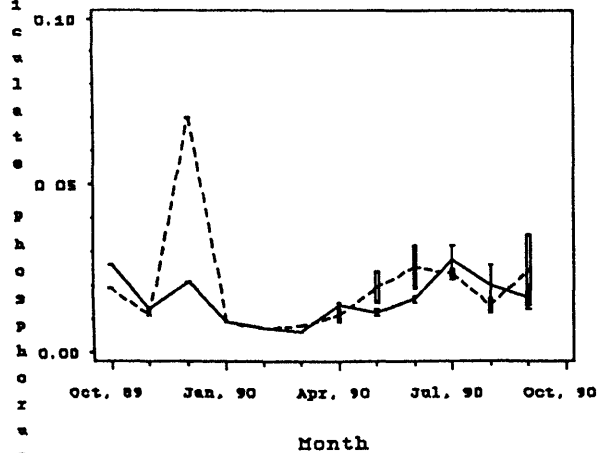
Station Id=CB7.3E



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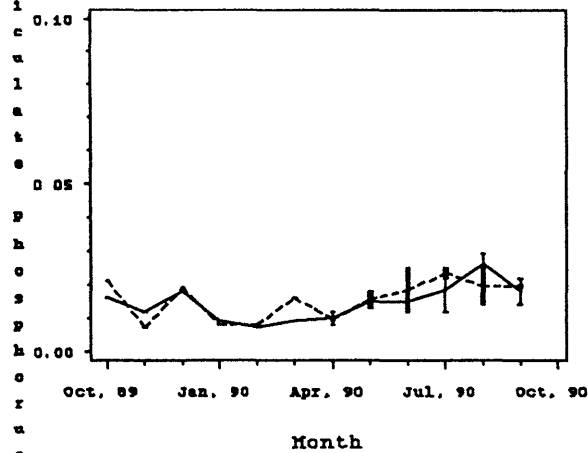
Station Id=LE3.6



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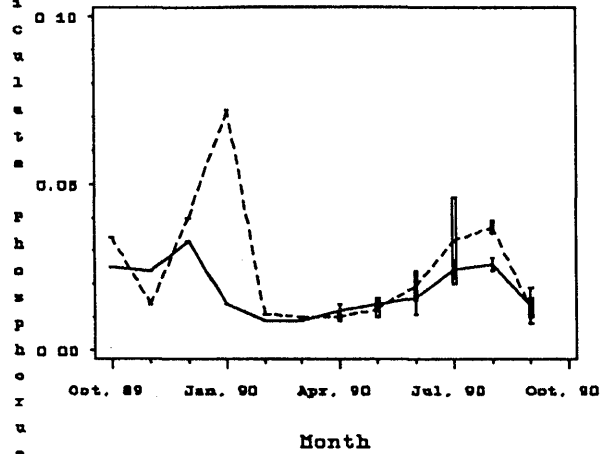
Station Id=LE3.7



— Surface - - - - Bottom

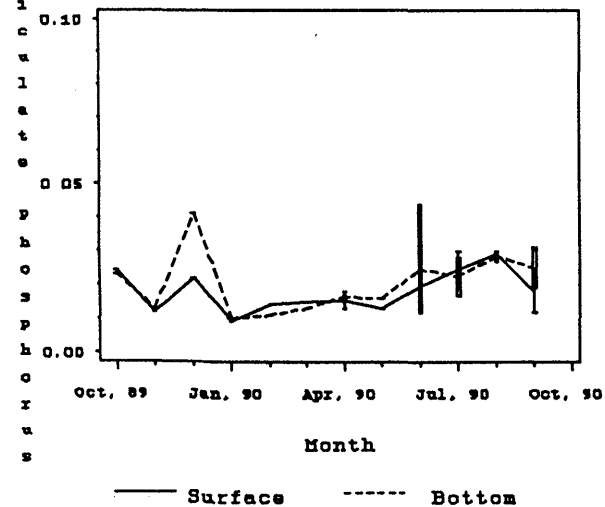
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Station Id=WE4.1



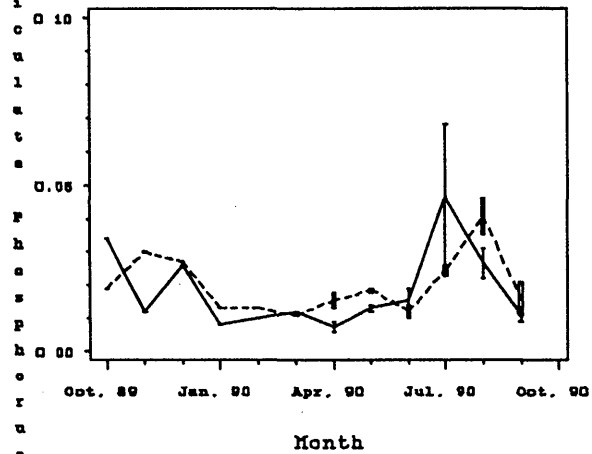
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Station Id=WE4.4



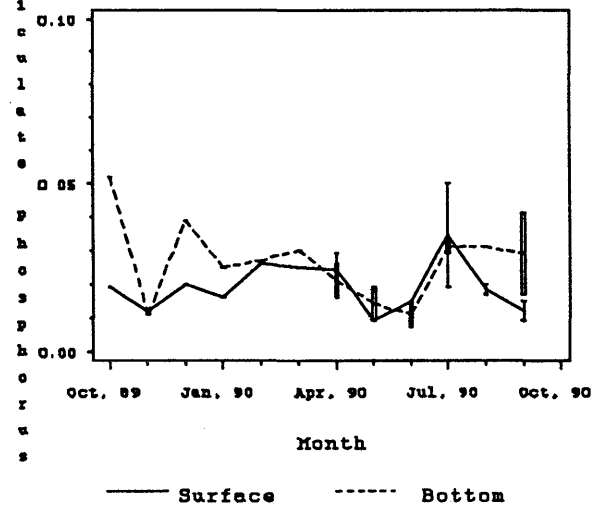
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Station Id=WE4.2



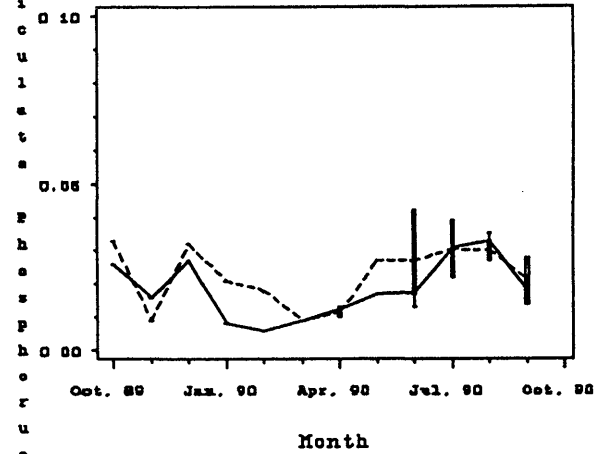
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Station Id=LE5.5



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Station Id=WE4.3

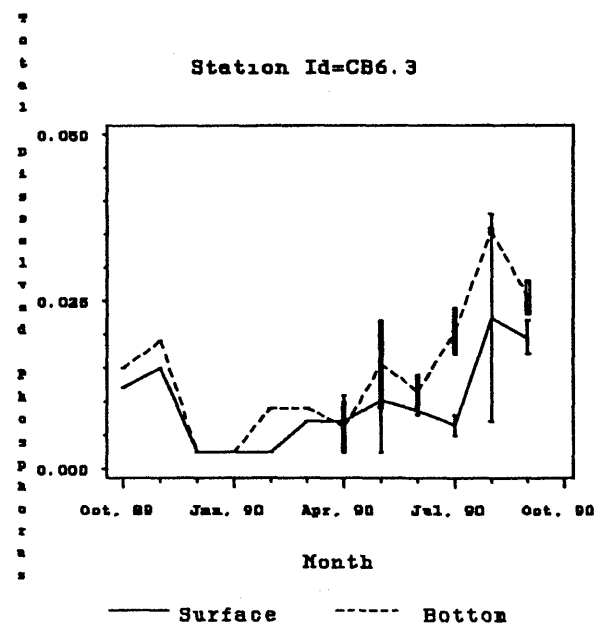
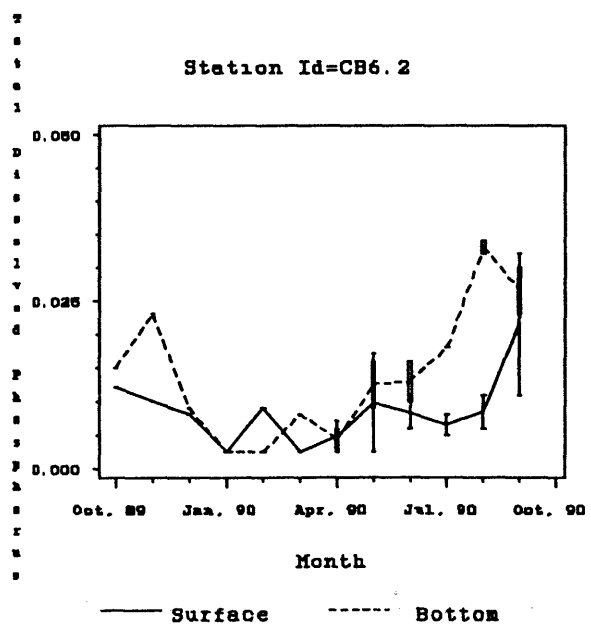
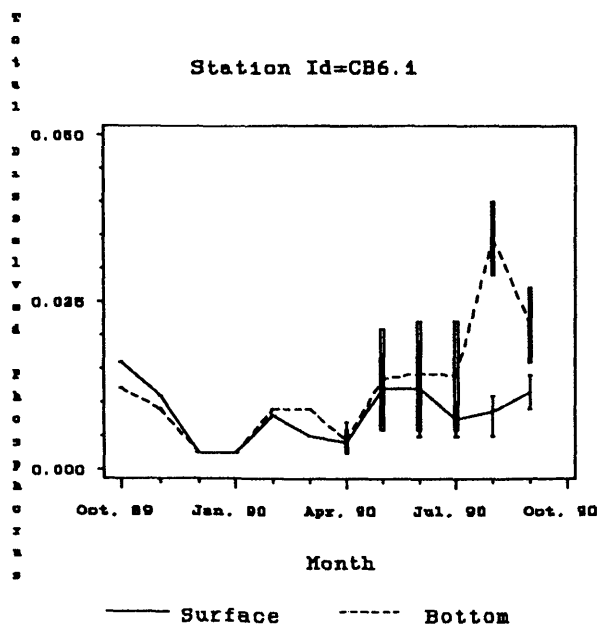
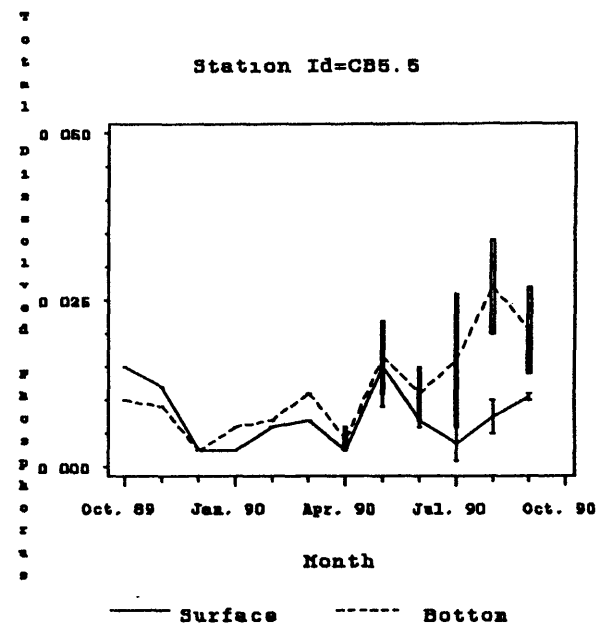
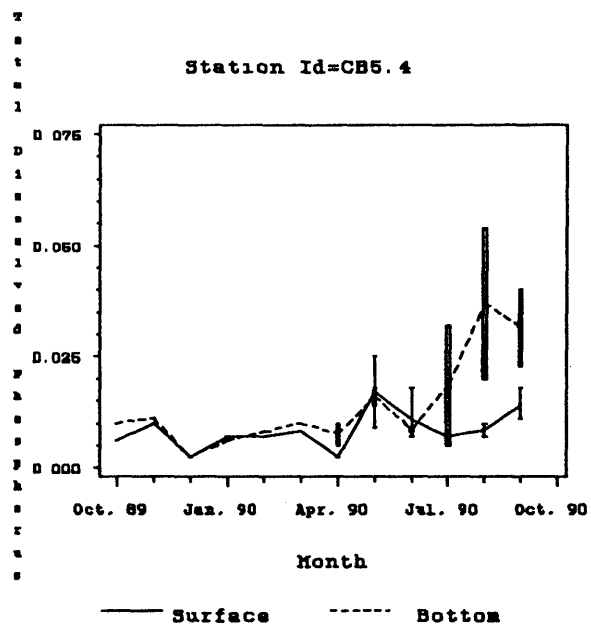
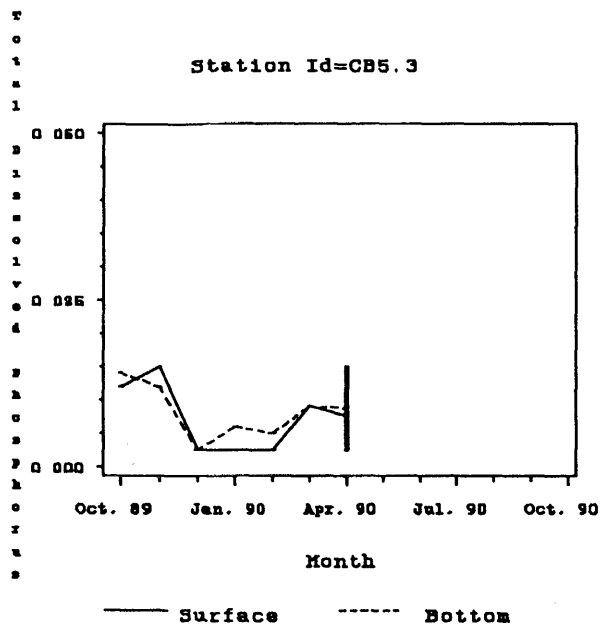


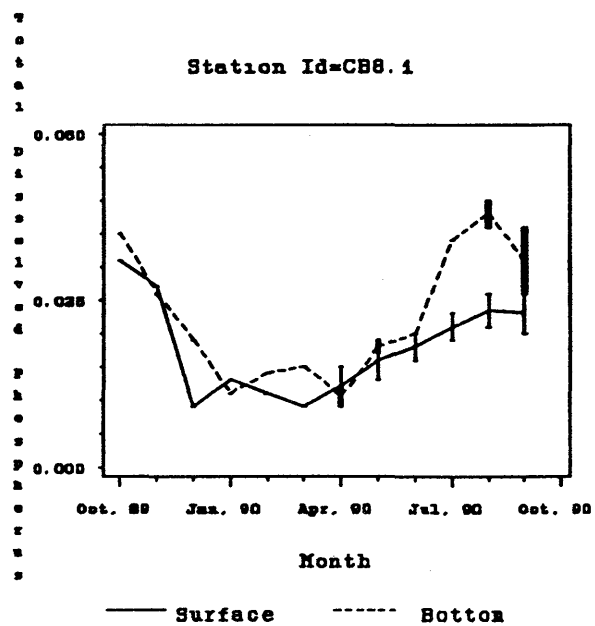
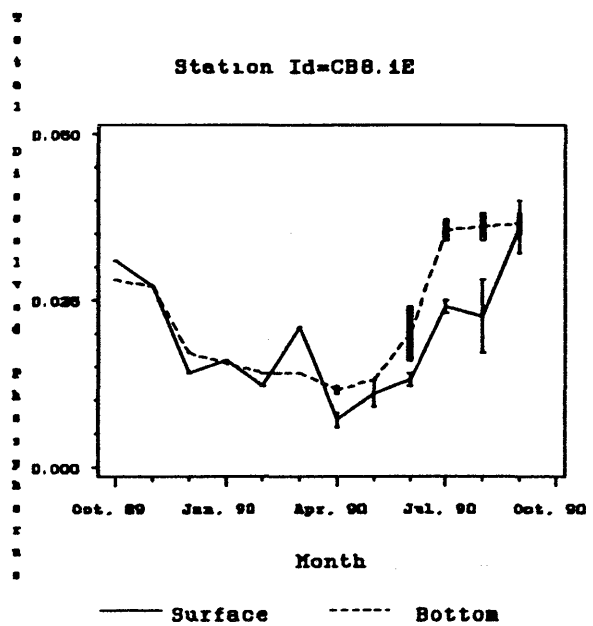
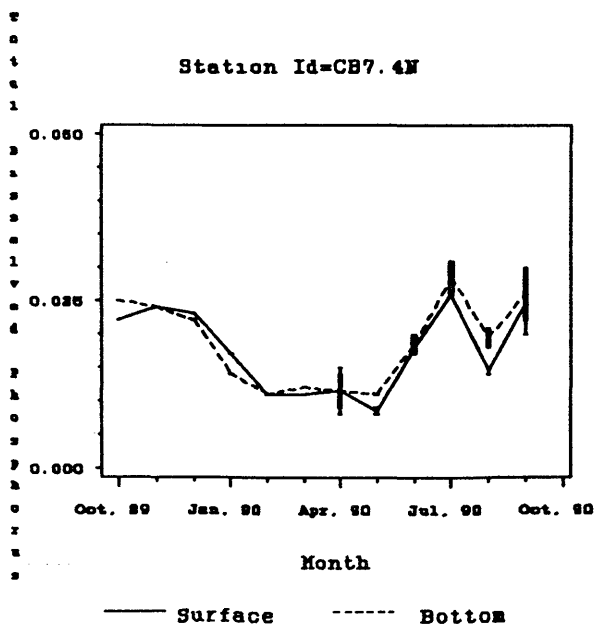
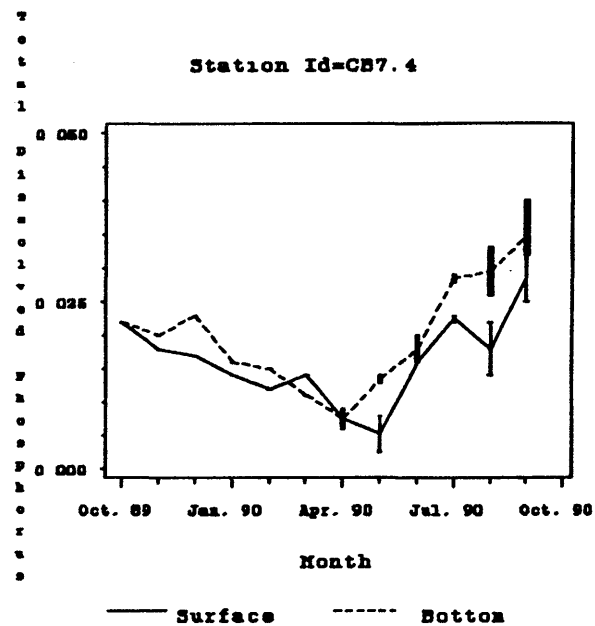
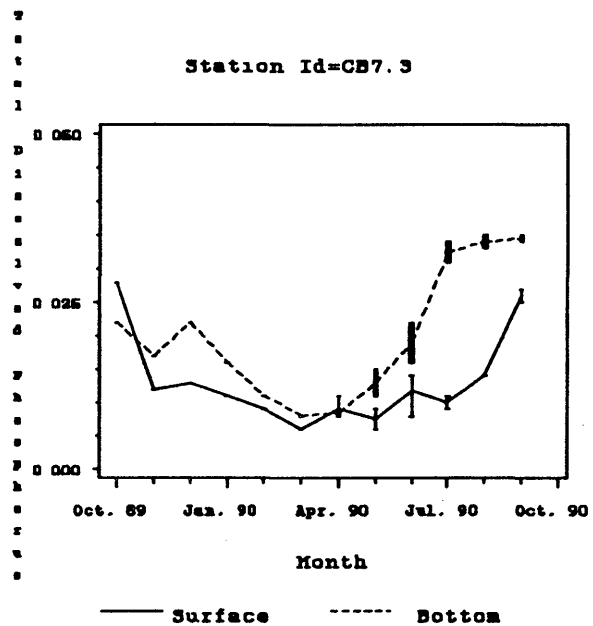
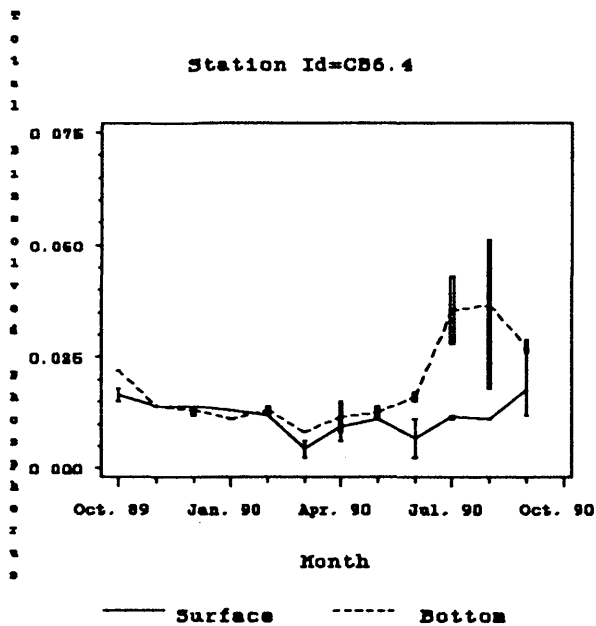
TOTAL DISSOLVED PHOSPHORUS

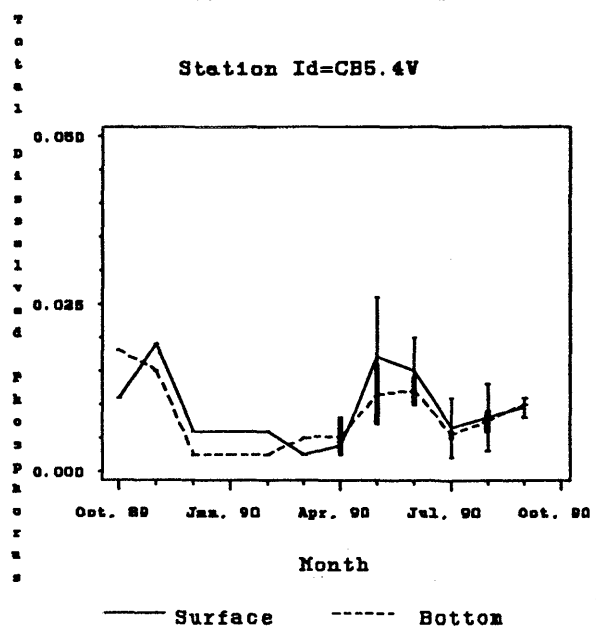
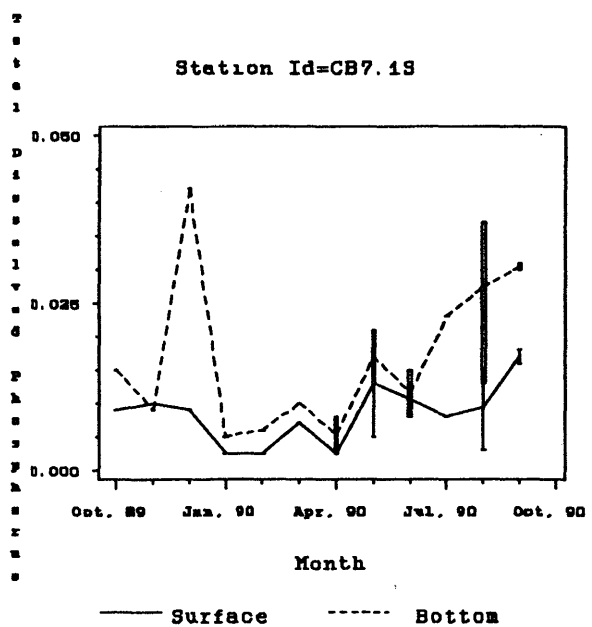
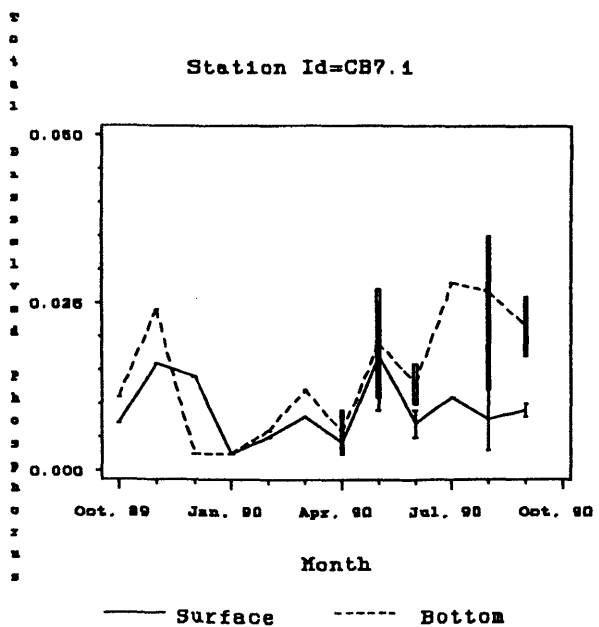
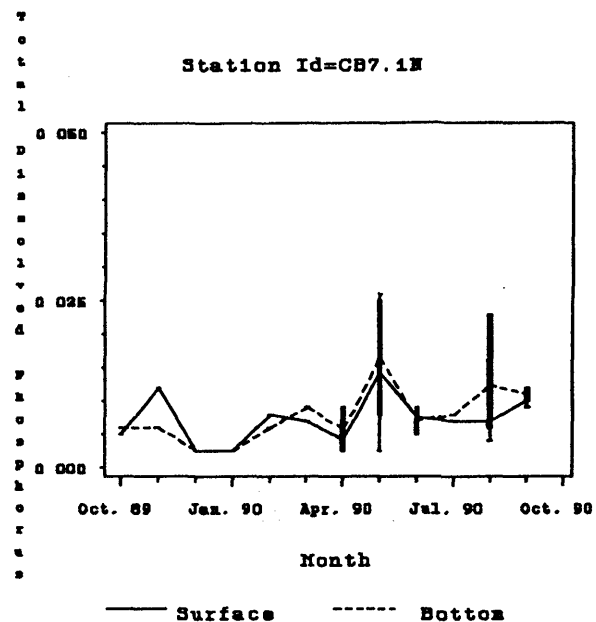
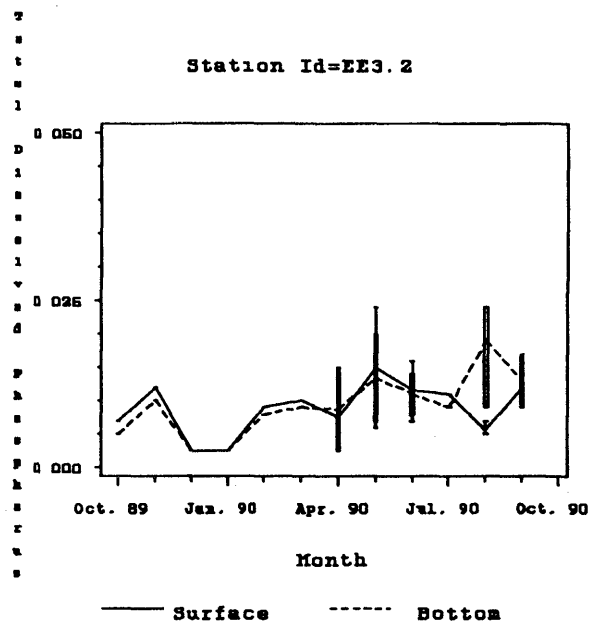
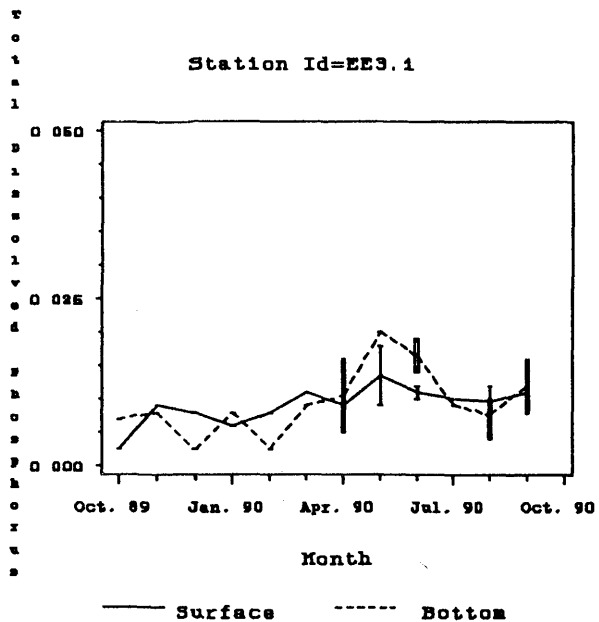
Values reported as mg/l.

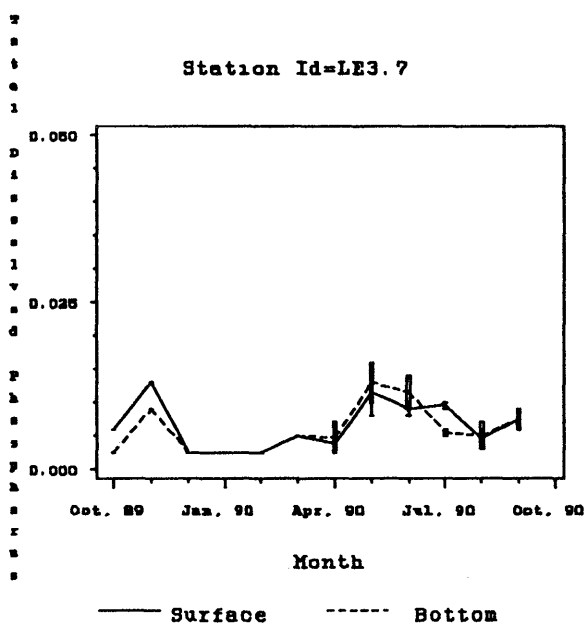
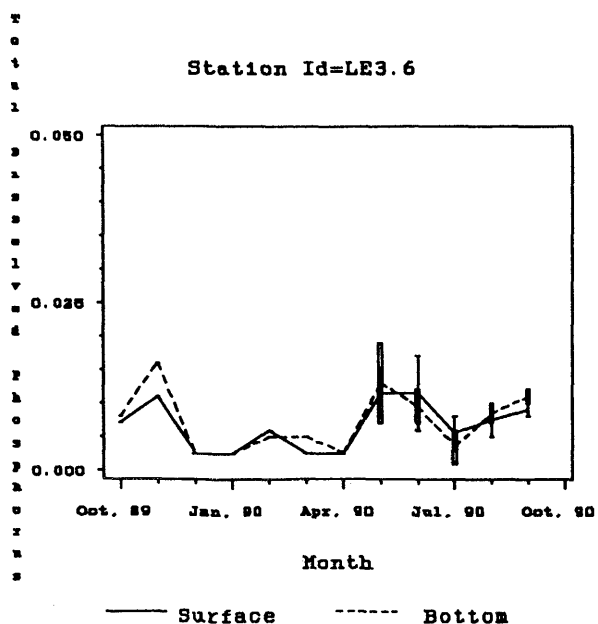
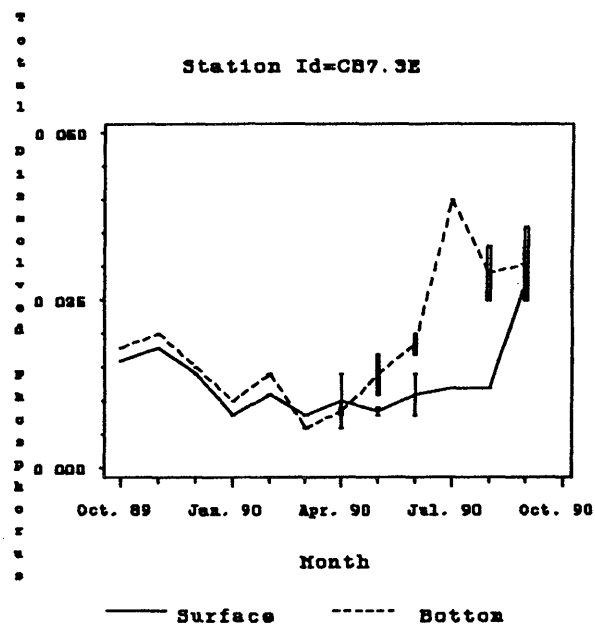
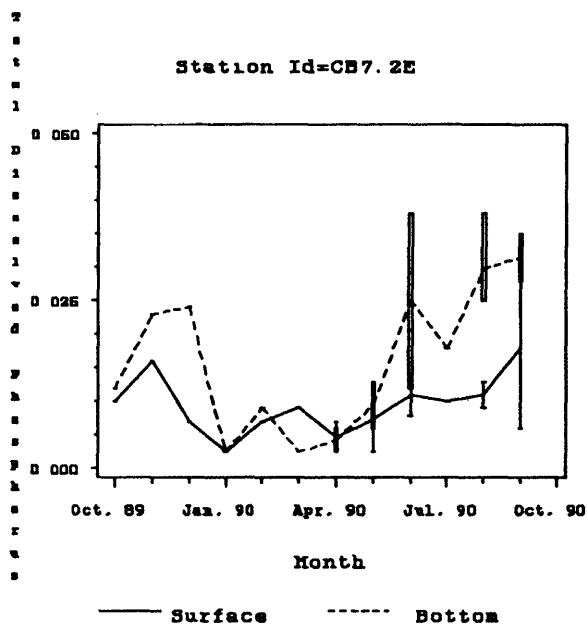
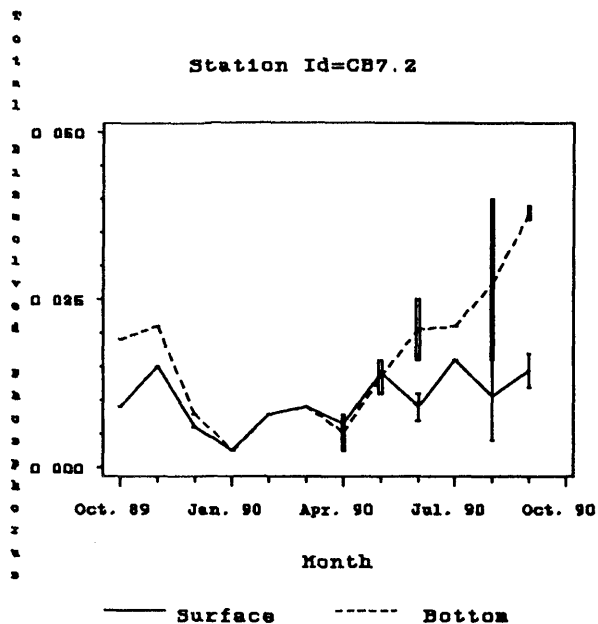
Total Dissolved Phosphorus
October, 1989 - September, 1990

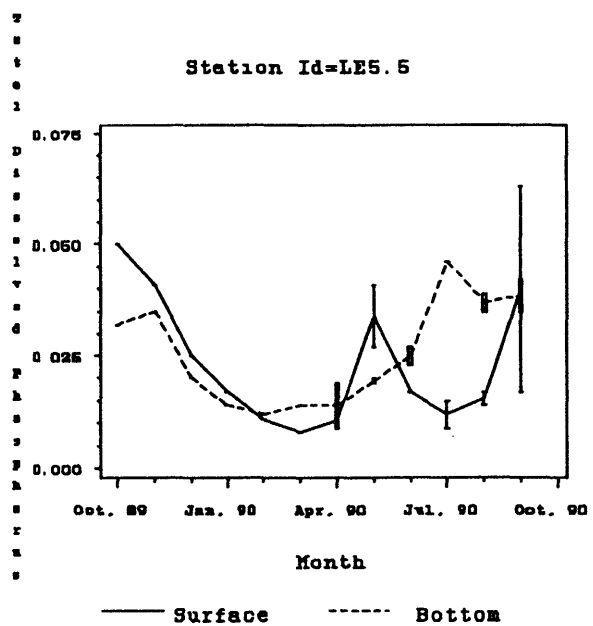
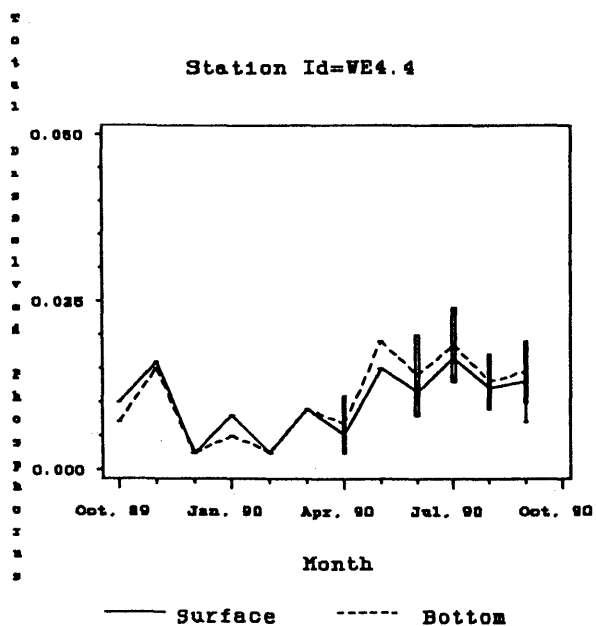
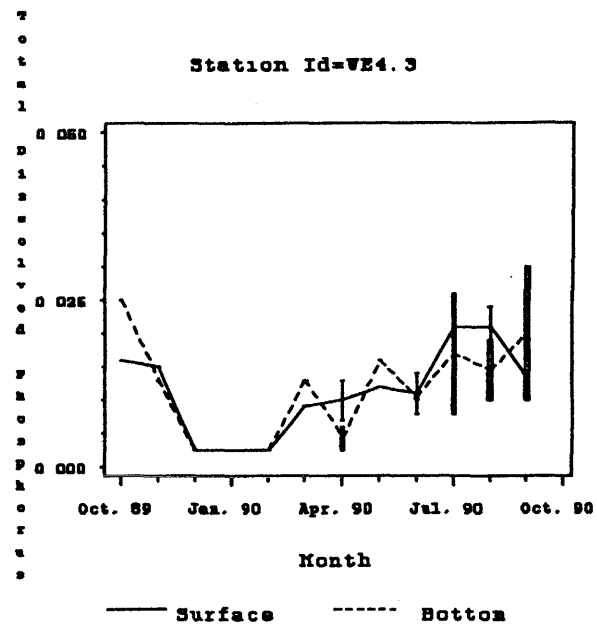
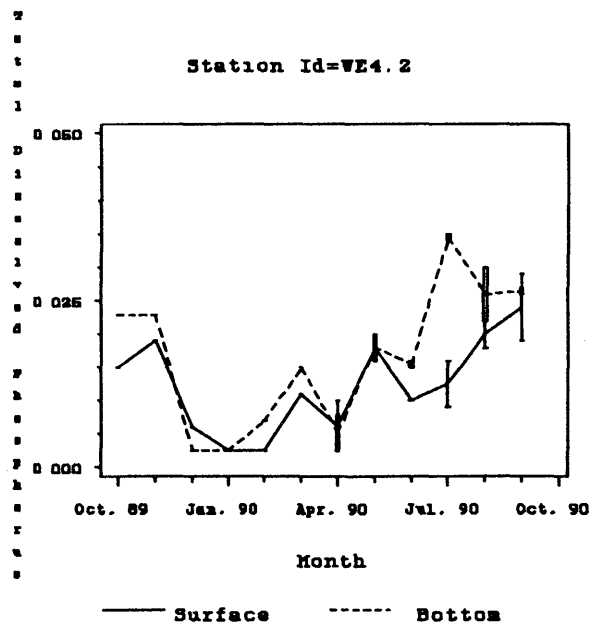
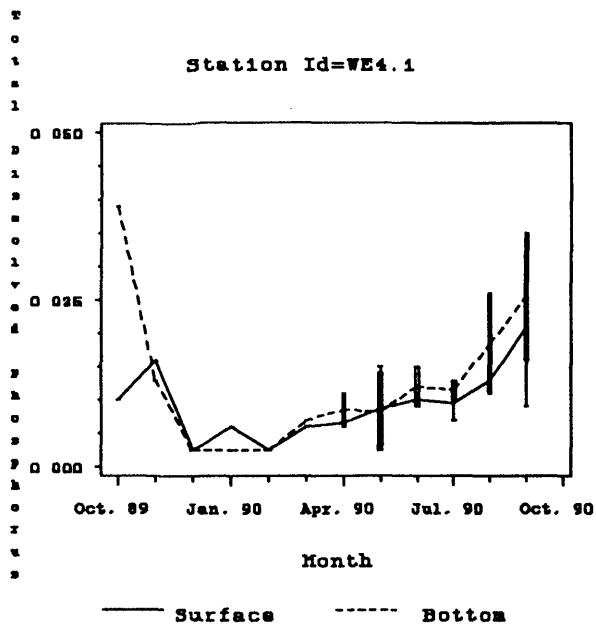
Station	Total Dissolved Phosphorus (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.0150	0.0073	0.0025	0.0150	0.0082	0.0025
CB5.4.....	0.0250	0.0092	0.0025	0.0540	0.0159	0.0025
CB5.5.....	0.0210	0.0077	0.0010	0.0340	0.0131	0.0025
CB6.1.....	0.0190	0.0084	0.0025	0.0400	0.0138	0.0025
CB6.2.....	0.0320	0.0090	0.0025	0.0340	0.0152	0.0025
CB6.3.....	0.0380	0.0104	0.0025	0.0360	0.0159	0.0025
CB6.4.....	0.0290	0.0116	0.0025	0.0510	0.0209	0.0080
CB7.3.....	0.0280	0.0128	0.0060	0.0350	0.0211	0.0080
CB7.4.....	0.0320	0.0160	0.0025	0.0400	0.0213	0.0060
CB7.4N.....	0.0290	0.0174	0.0080	0.0310	0.0188	0.0090
CB8.1E.....	0.0400	0.0193	0.0060	0.0380	0.0238	0.0110
CB8.1.....	0.0310	0.0182	0.0090	0.0400	0.0229	0.0090
EE3.1.....	0.0180	0.0096	0.0030	0.0200	0.0104	0.0025
EE3.2.....	0.0240	0.0091	0.0025	0.0240	0.0107	0.0025
CB7.1N.....	0.0260	0.0075	0.0025	0.0250	0.0086	0.0025
CB7.1.....	0.0250	0.0089	0.0025	0.0350	0.0158	0.0025
CB7.1S.....	0.0210	0.0090	0.0025	0.0420	0.0178	0.0025
CB5.4W.....	0.0260	0.0094	0.0020	0.0180	0.0083	0.0025
CB7.2.....	0.0190	0.0103	0.0025	0.0400	0.0181	0.0025
CB7.2E.....	0.0300	0.0098	0.0025	0.0380	0.0178	0.0025
CB7.3E.....	0.0300	0.0132	0.0060	0.0400	0.0191	0.0060
LE3.6.....	0.0170	0.0070	0.0025	0.0190	0.0075	0.0010
LE3.7.....	0.0150	0.0068	0.0025	0.0160	0.0066	0.0025
WE4.1.....	0.0330	0.0100	0.0025	0.0390	0.0131	0.0025
WE4.2.....	0.0290	0.0132	0.0025	0.0350	0.0180	0.0025
WE4.3.....	0.0240	0.0125	0.0025	0.0300	0.0122	0.0025
WE4.4.....	0.0190	0.0106	0.0025	0.0240	0.0114	0.0025
LE5.5.....	0.0630	0.0228	0.0080	0.0460	0.0259	0.0090









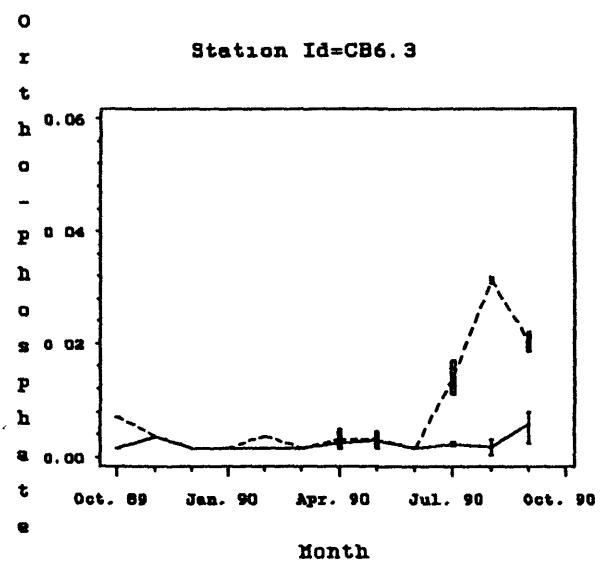
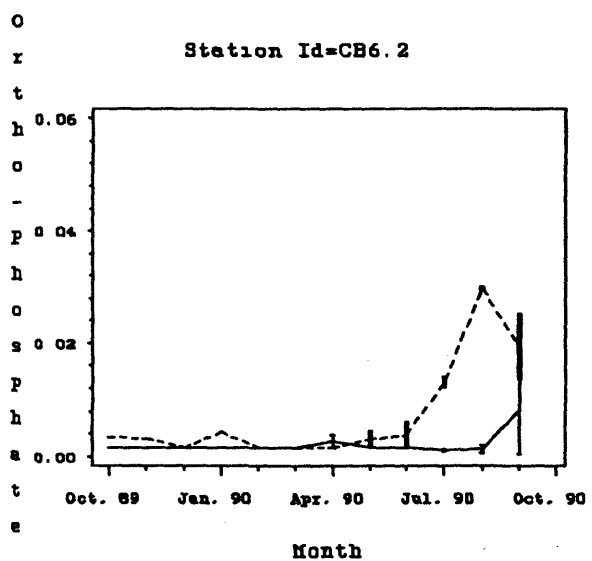
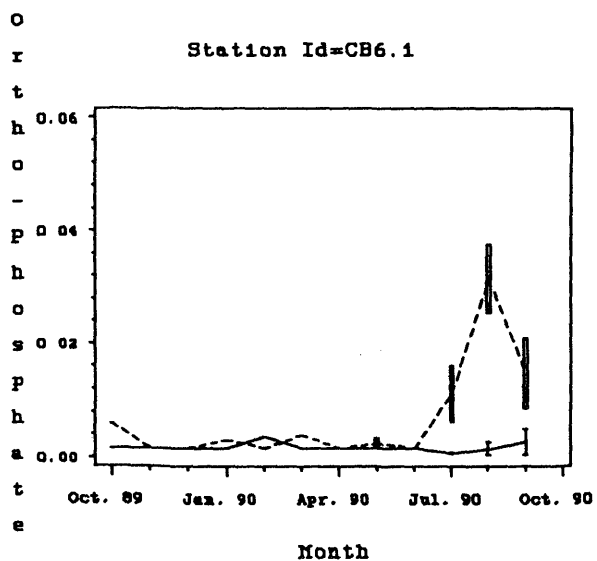
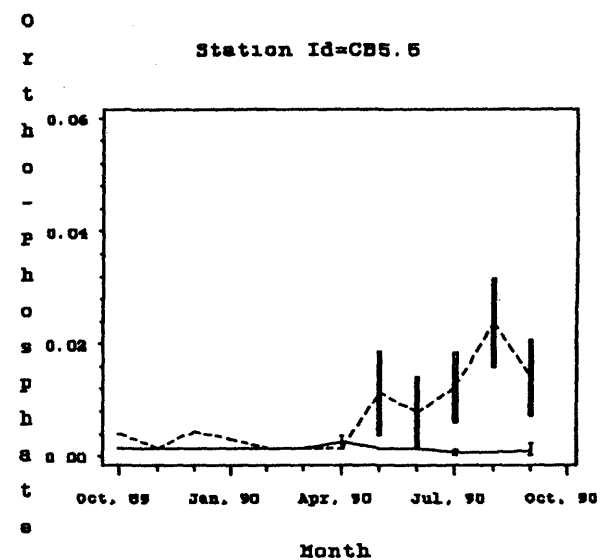
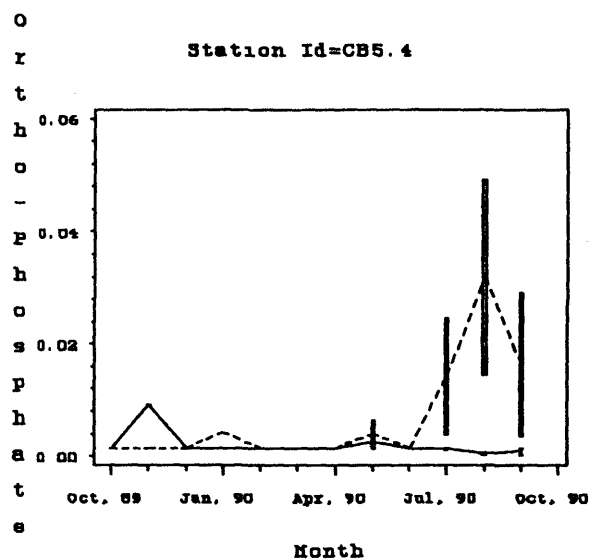
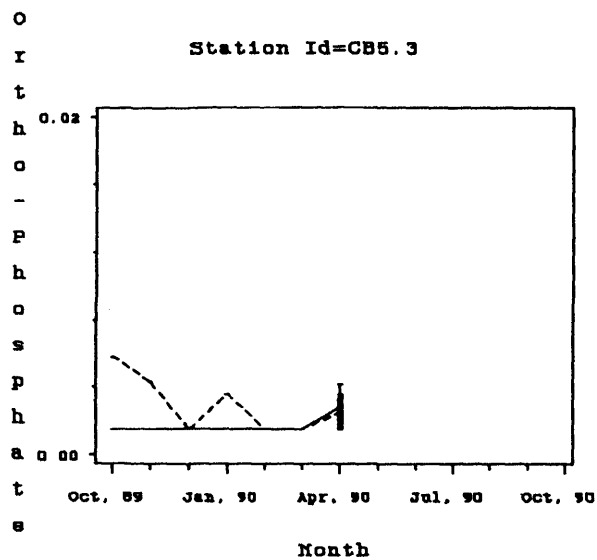


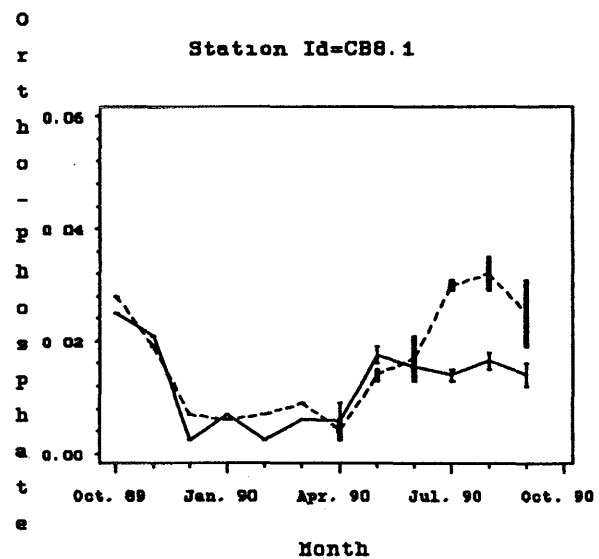
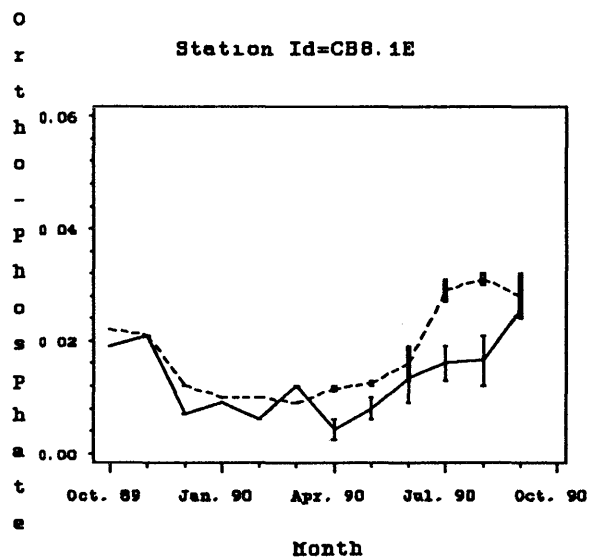
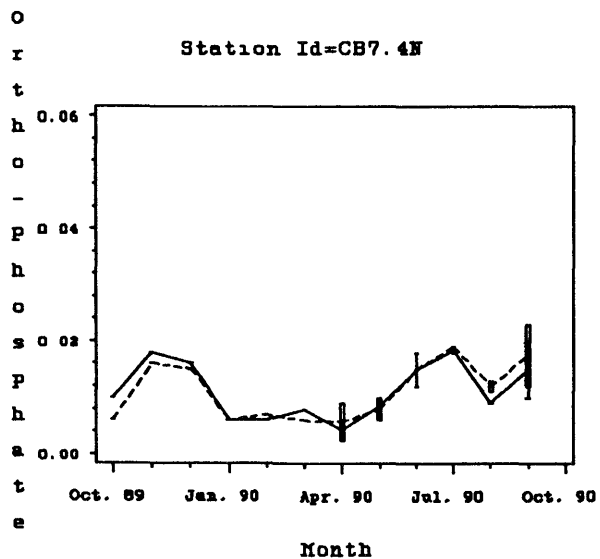
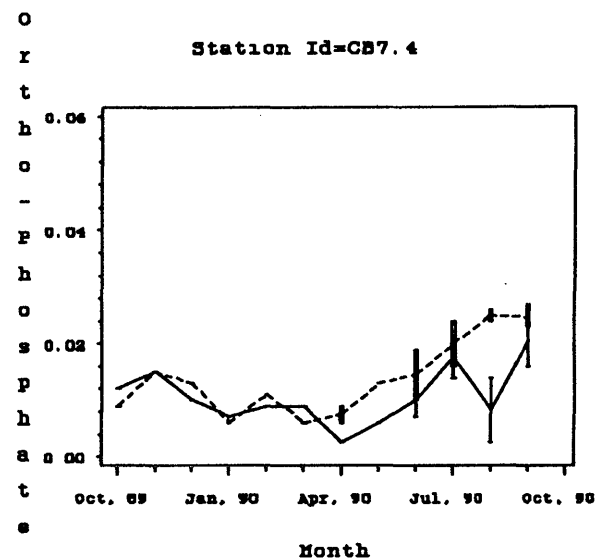
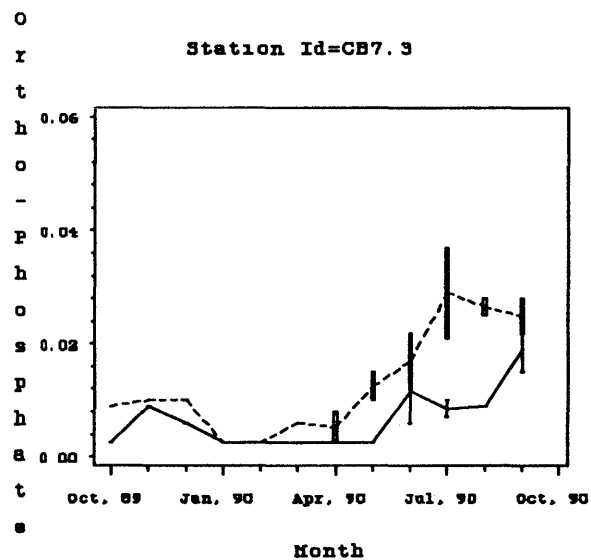
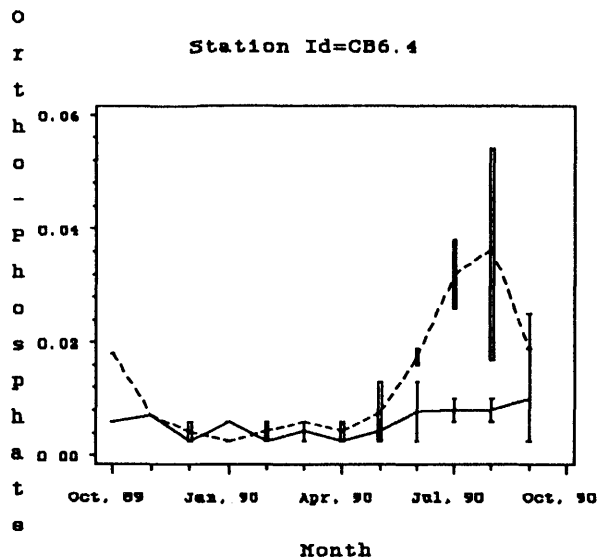
ORTHO-PHOSPHATE

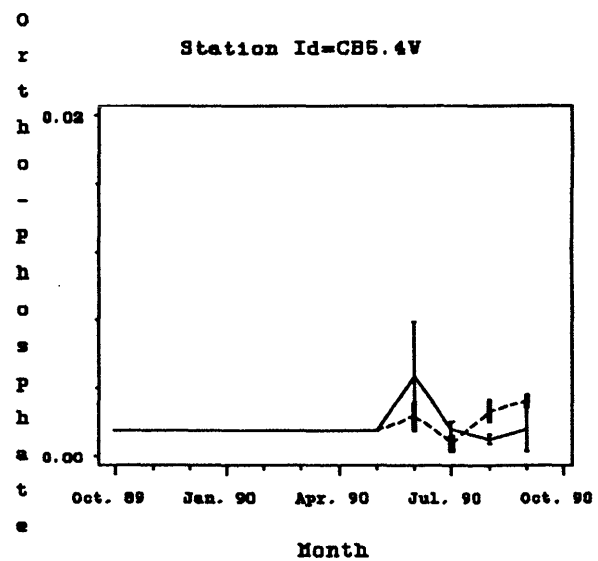
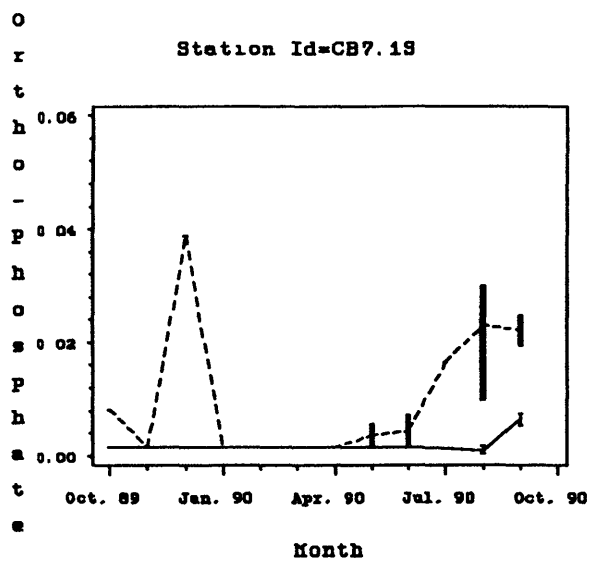
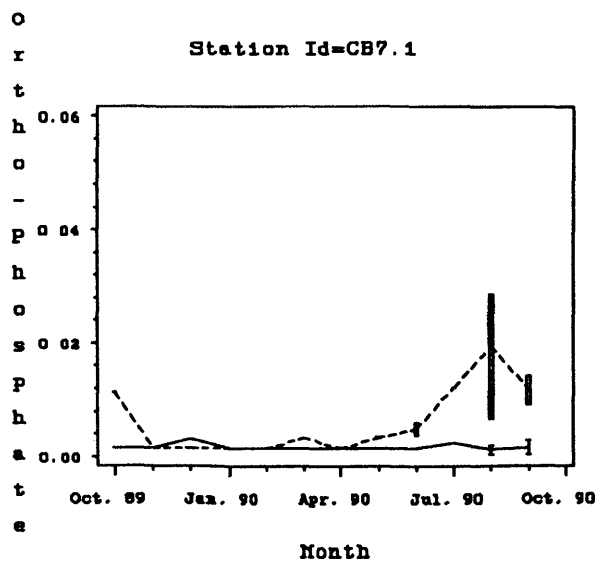
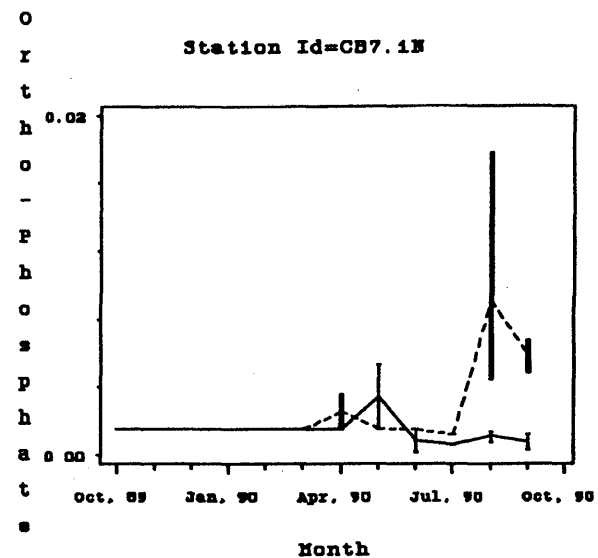
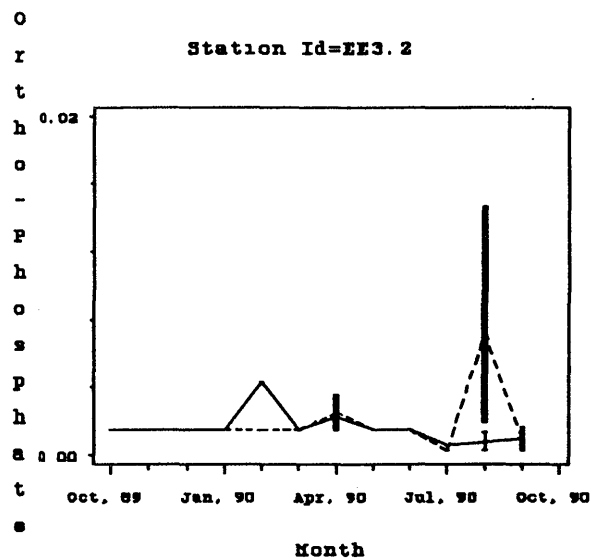
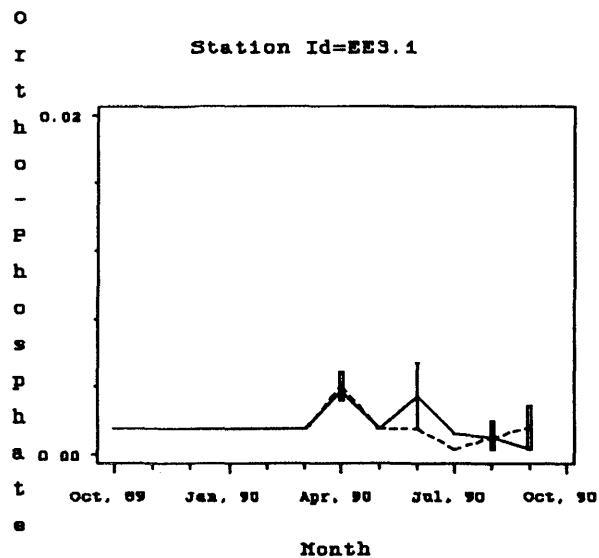
Values reported as mg/l.

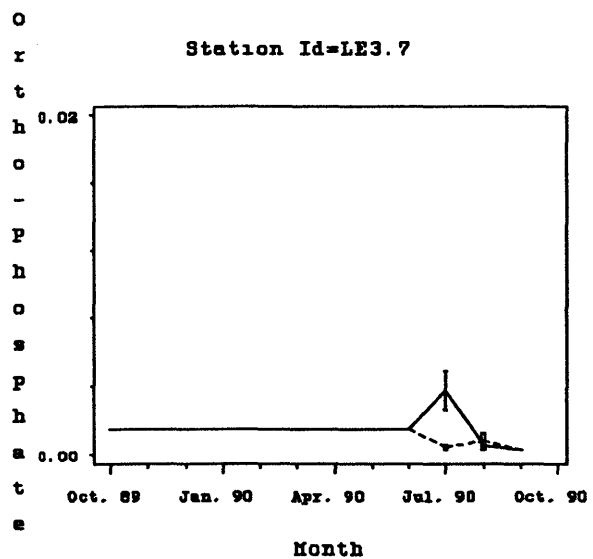
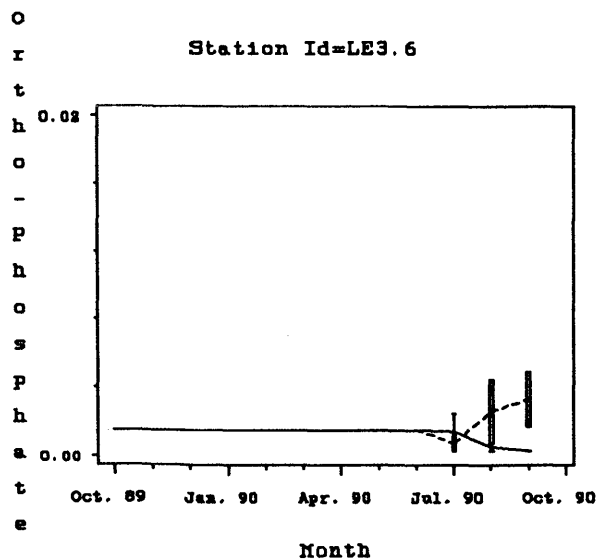
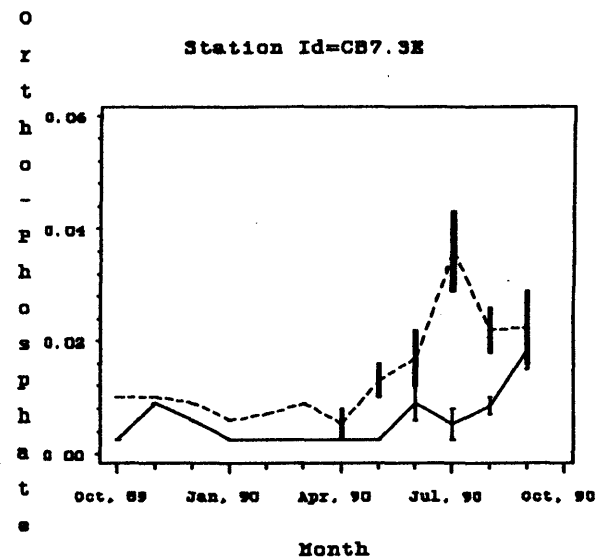
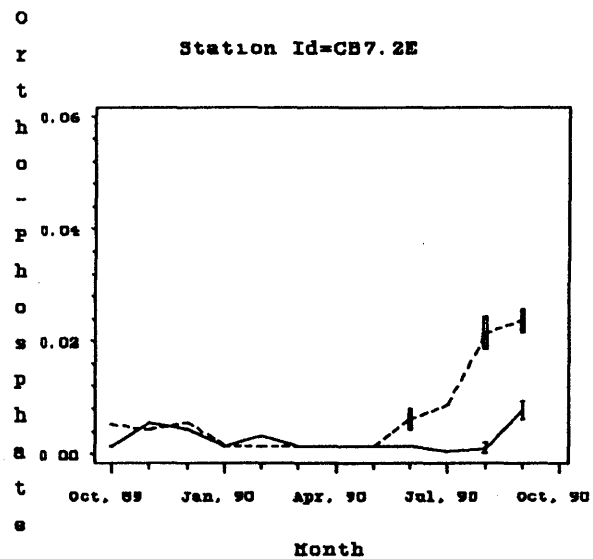
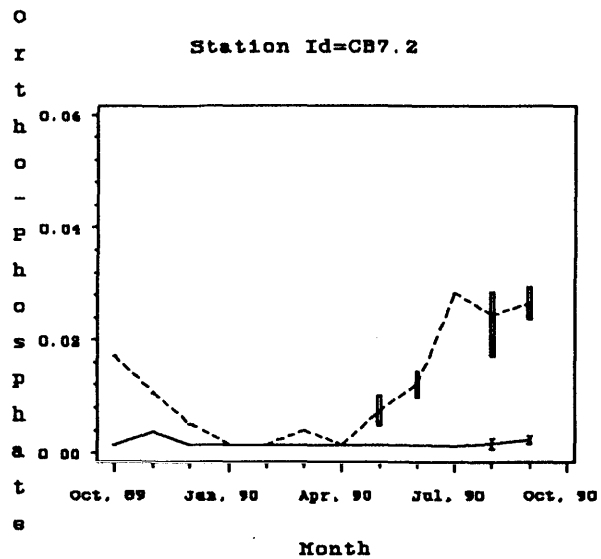
Ortho-phosphate
October, 1989 - September, 1990

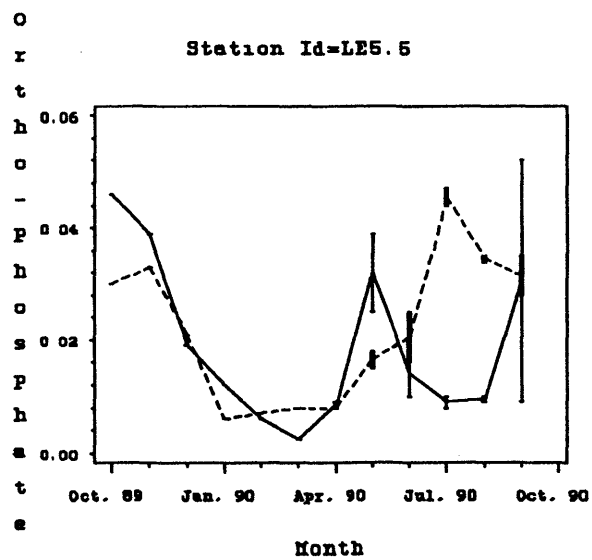
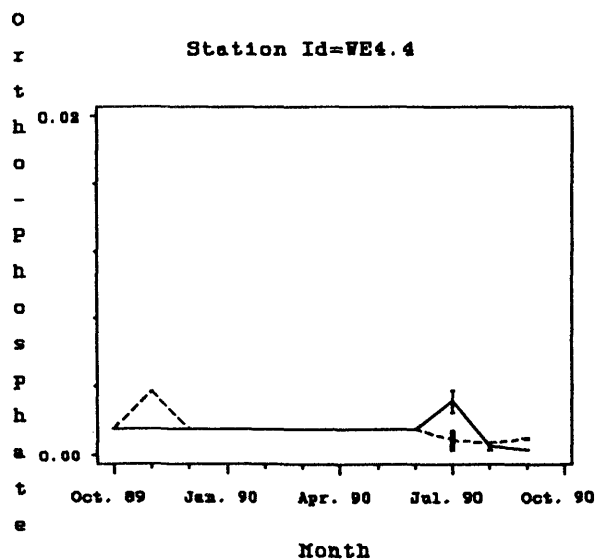
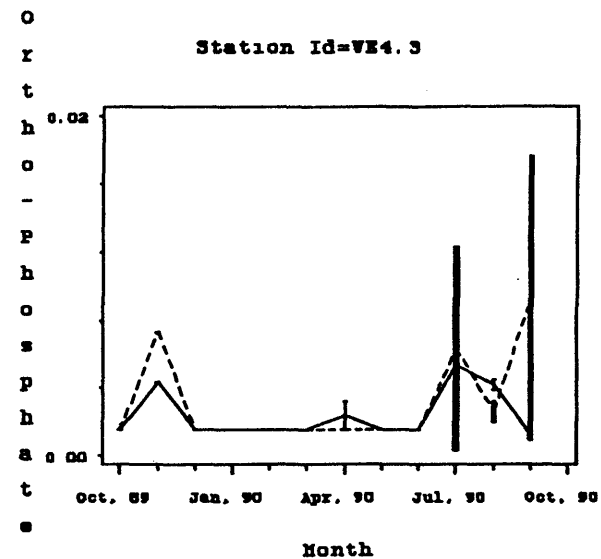
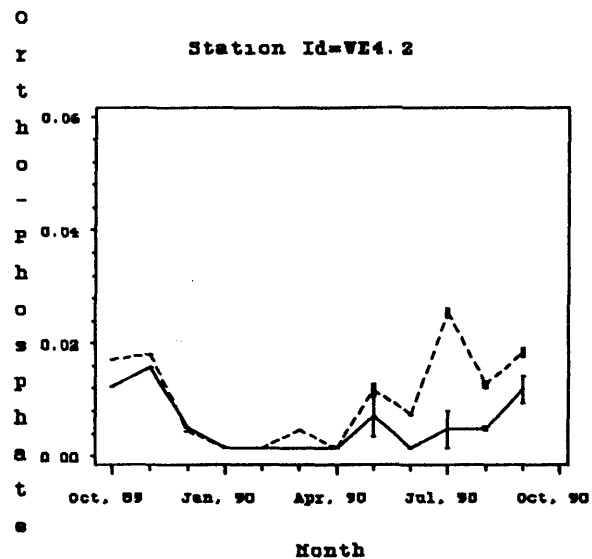
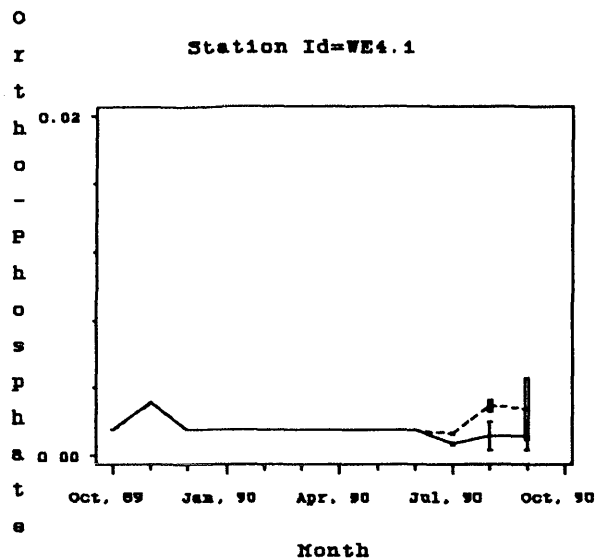
Station	Ortho-phosphate (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.0042	0.0018	0.0015	0.0058	0.0029	0.0015
CB5.4.....	0.0091	0.0018	0.0003	0.0493	0.0084	0.0015
CB5.5.....	0.0036	0.0014	0.0003	0.0316	0.0088	0.0015
CB6.1.....	0.0049	0.0016	0.0003	0.0375	0.0076	0.0015
CB6.2.....	0.0161	0.0023	0.0003	0.0299	0.0087	0.0015
CB6.3.....	0.0080	0.0025	0.0003	0.0318	0.0092	0.0015
CB6.4.....	0.0250	0.0060	0.0025	0.0540	0.0162	0.0025
CB7.3.....	0.0230	0.0073	0.0025	0.0370	0.0150	0.0025
CB7.4.....	0.0250	0.0106	0.0025	0.0270	0.0155	0.0060
CB7.4N.....	0.0200	0.0114	0.0025	0.0230	0.0117	0.0025
CB8.1E.....	0.0260	0.0134	0.0025	0.0320	0.0189	0.0090
CB8.1.....	0.0250	0.0128	0.0025	0.0350	0.0178	0.0025
EE3.1.....	0.0054	0.0017	0.0003	0.0049	0.0016	0.0003
EE3.2.....	0.0043	0.0015	0.0003	0.0147	0.0024	0.0003
CB7.1N.....	0.0053	0.0014	0.0001	0.0178	0.0033	0.0012
CB7.1.....	0.0032	0.0016	0.0003	0.0286	0.0075	0.0015
CB7.1S.....	0.0074	0.0019	0.0003	0.0388	0.0112	0.0015
CB5.4W.....	0.0079	0.0018	0.0003	0.0036	0.0018	0.0003
CB7.2.....	0.0037	0.0017	0.0007	0.0294	0.0131	0.0015
CB7.2E.....	0.0093	0.0025	0.0003	0.0259	0.0088	0.0015
CB7.3E.....	0.0220	0.0065	0.0025	0.0430	0.0157	0.0025
LE3.6.....	0.0025	0.0012	0.0003	0.0049	0.0017	0.0003
LE3.7.....	0.0049	0.0015	0.0003	0.0015	0.0012	0.0003
WE4.1.....	0.0031	0.0014	0.0003	0.0046	0.0019	0.0009
WE4.2.....	0.0157	0.0056	0.0014	0.0262	0.0112	0.0015
WE4.3.....	0.0062	0.0024	0.0010	0.0176	0.0033	0.0003
WE4.4.....	0.0038	0.0014	0.0003	0.0037	0.0014	0.0003
LE5.5.....	0.0520	0.0184	0.0025	0.0470	0.0232	0.0060











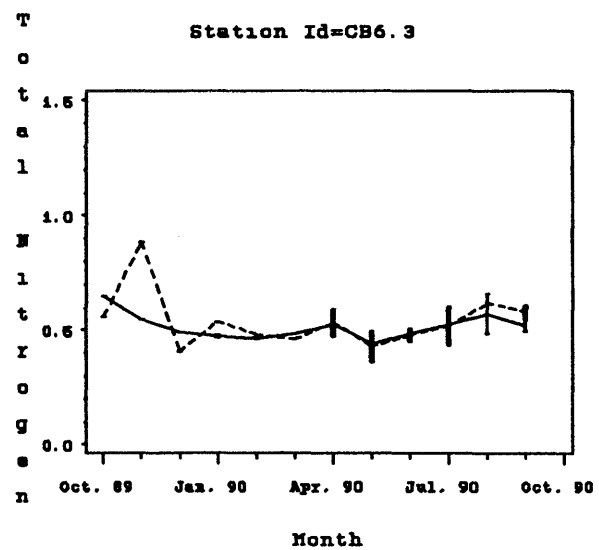
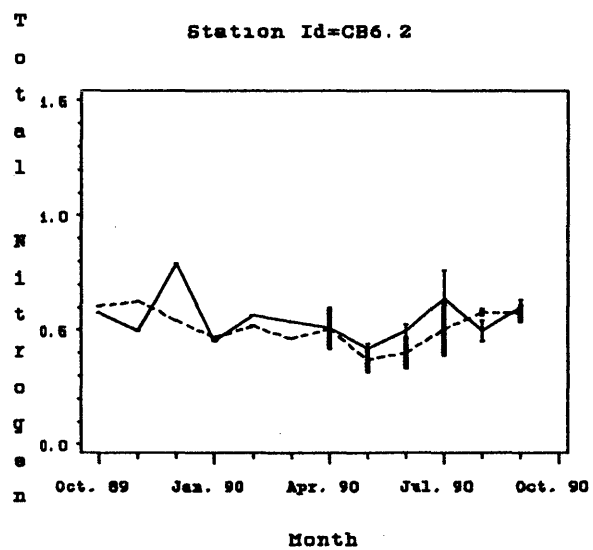
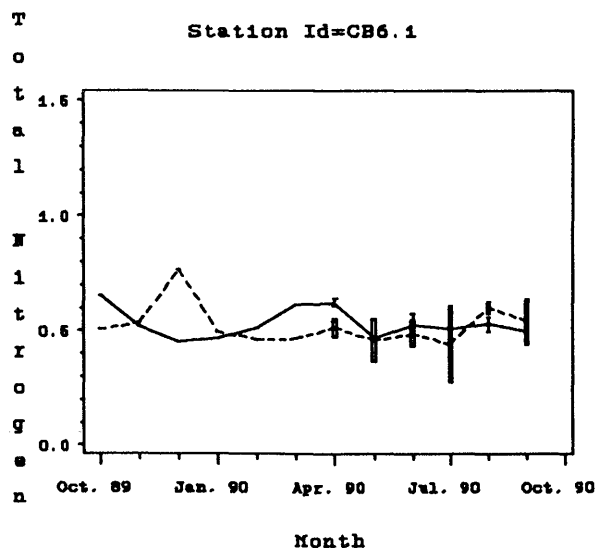
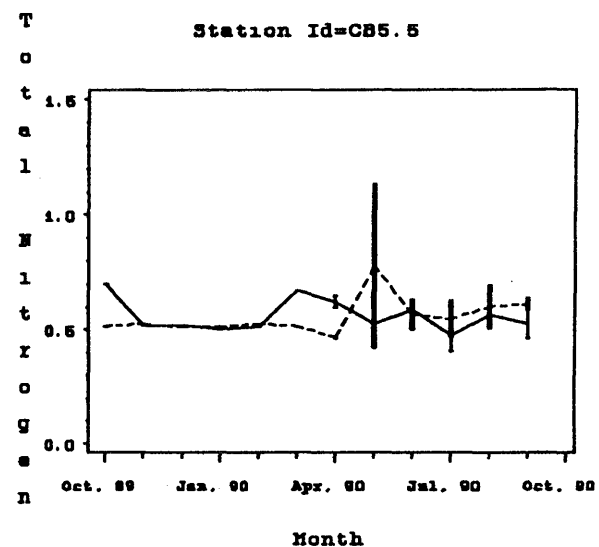
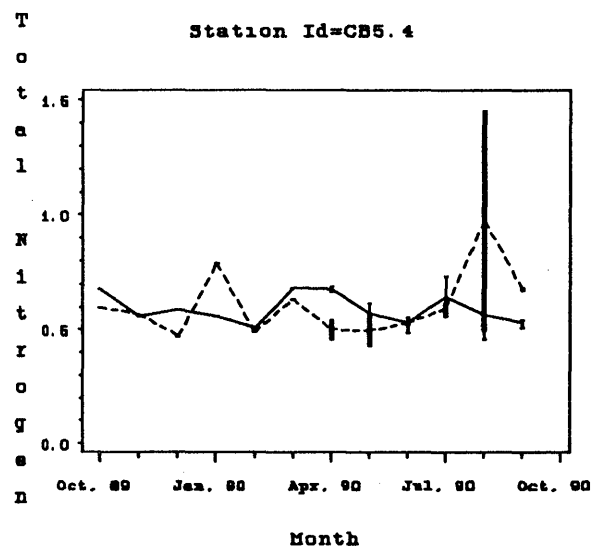
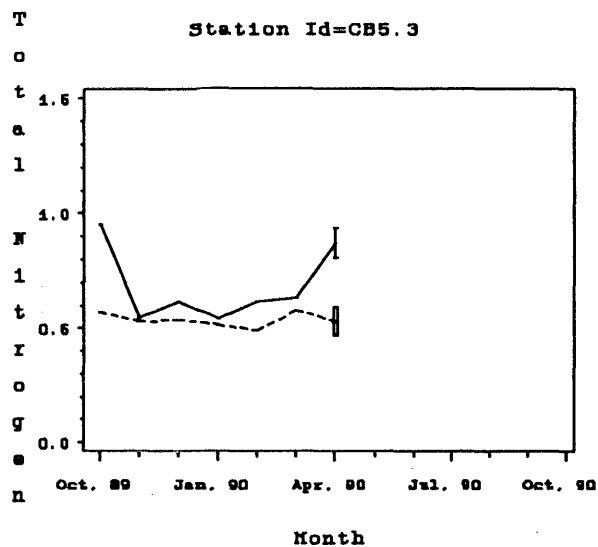
TOTAL NITROGEN

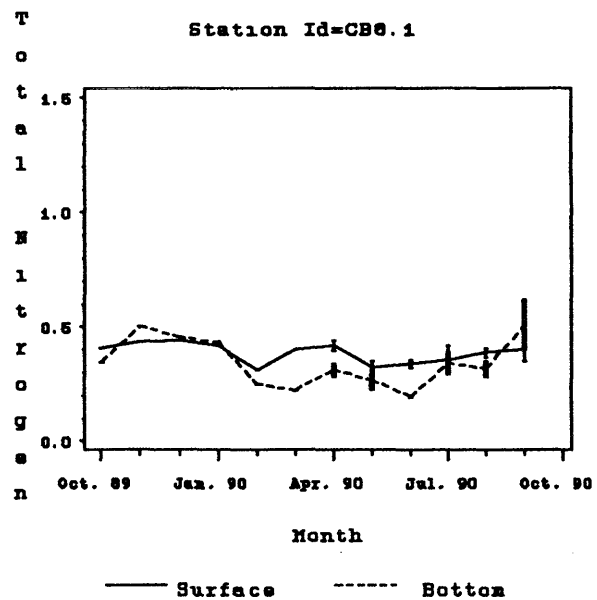
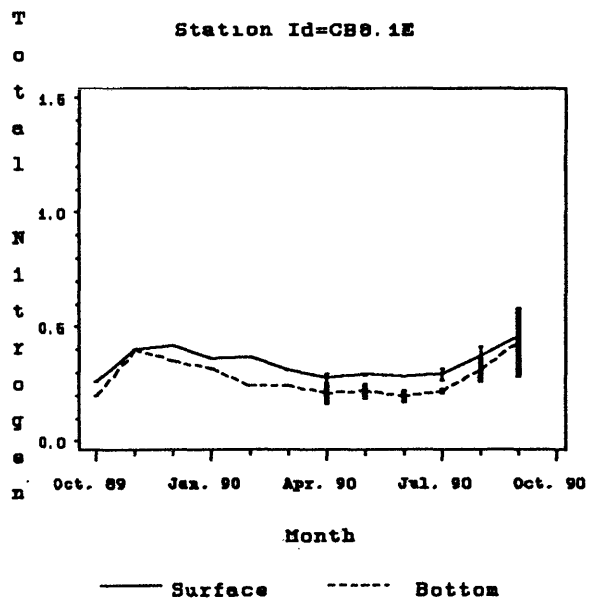
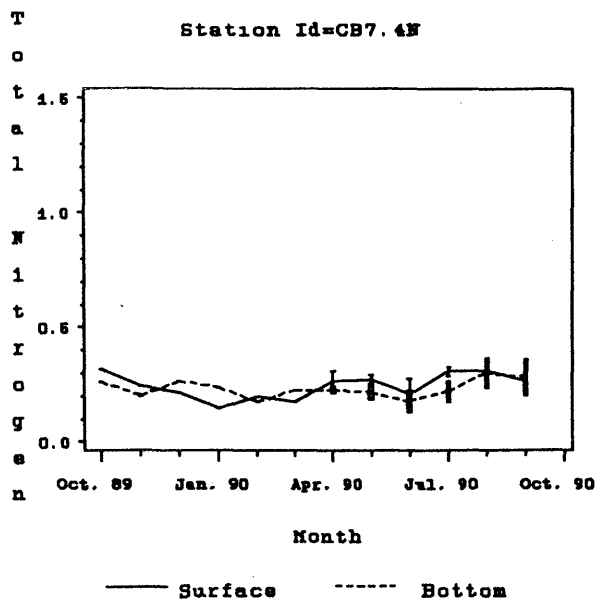
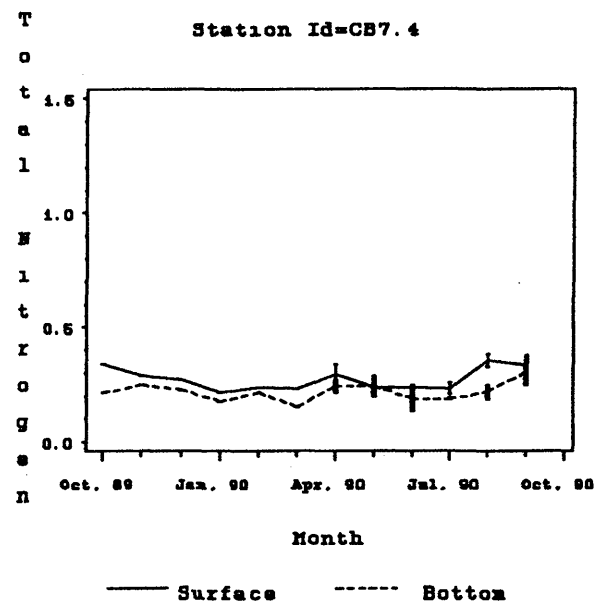
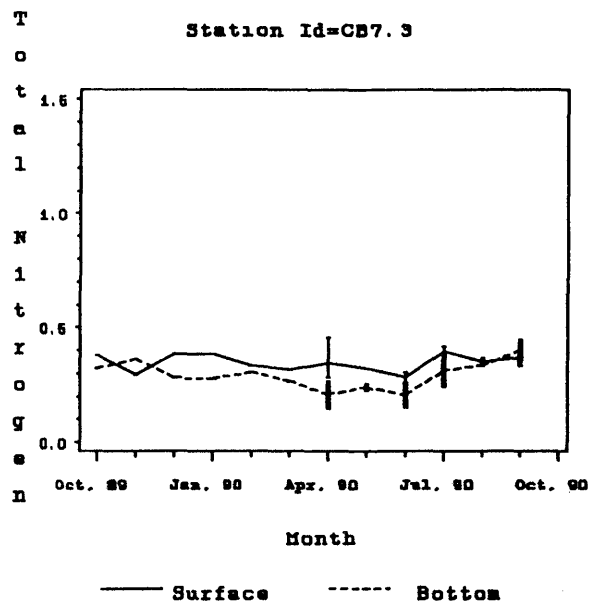
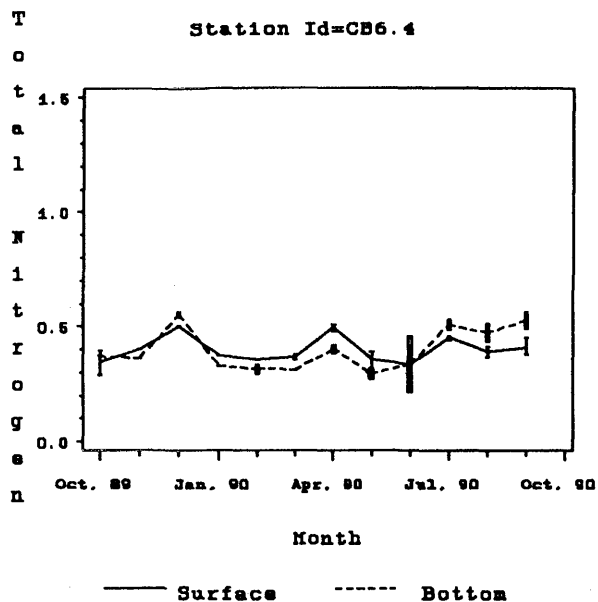
Total Nitrogen is the sum of
Particulate Nitrogen and Total Dissolved Nitrogen.

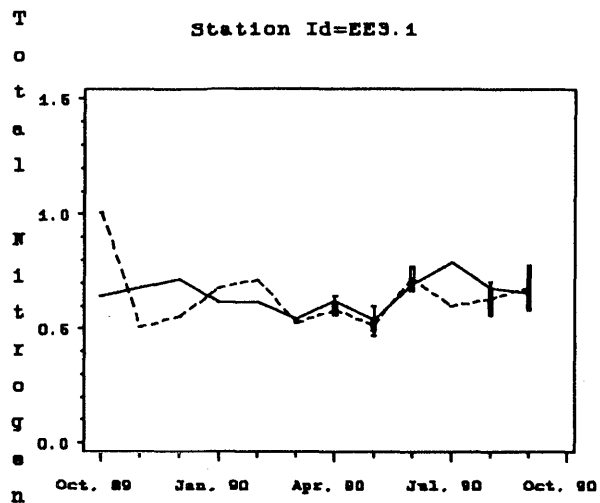
Values reported as mg/l.

Total Nitrogen
October, 1989 - September, 1990

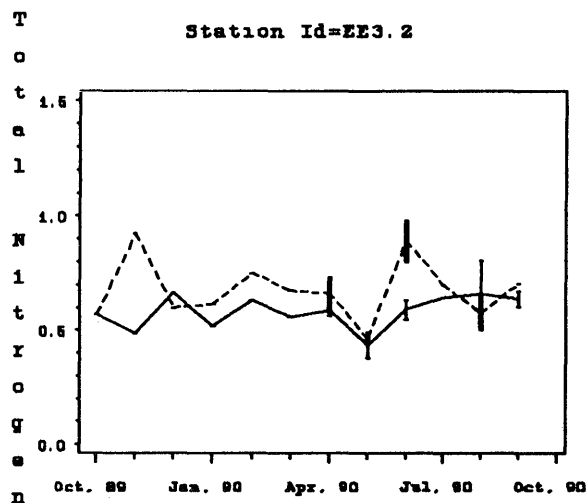
Station	Total Nitrogen (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.9490	0.7041	0.5420	0.5900	0.5340	0.4690
CB5.4.....	0.7340	0.5829	0.4550	1.4510	0.6147	0.4260
CB5.5.....	0.6960	0.5545	0.4040	1.1310	0.5683	0.4220
CB6.1.....	0.6520	0.5330	0.4510	0.7650	0.5154	0.2750
CB6.2.....	0.7910	0.5364	0.3910	0.6260	0.5035	0.3150
CB6.3.....	0.6570	0.5106	0.4030	0.8860	0.5361	0.3610
CB6.4.....	0.5100	0.3958	0.2640	0.5630	0.4145	0.2150
CB7.3.....	0.4590	0.3414	0.2470	0.4470	0.2894	0.1470
CB7.4.....	0.3830	0.2737	0.2080	0.3780	0.2268	0.1360
CB7.4N.....	0.3390	0.2535	0.1360	0.3660	0.2349	0.1310
CB8.1E.....	0.5320	0.3361	0.2560	0.5810	0.2733	0.1670
CB8.1.....	0.4580	0.3819	0.2970	0.6190	0.3468	0.1950
EE3.1.....	0.7860	0.6439	0.4700	1.0070	0.6352	0.4920
EE3.2.....	0.8060	0.5853	0.3770	0.9800	0.6664	0.4600
CB7.1N.....	0.7640	0.5559	0.3650	0.8200	0.5937	0.4620
CB7.1.....	0.6900	0.5382	0.4110	0.7750	0.5538	0.3540
CB7.1S.....	0.7570	0.5048	0.3310	0.6130	0.4689	0.3110
CB5.4W.....	0.6660	0.5772	0.4870	0.7720	0.5900	0.4700
CB7.2.....	0.6070	0.5027	0.3600	0.6680	0.4546	0.2890
CB7.2E.....	0.6490	0.4380	0.2670	0.6400	0.4504	0.3100
CB7.3E.....	0.4300	0.3411	0.2010	0.4630	0.3256	0.1780
LE3.6.....	0.7950	0.5418	0.3490	0.7490	0.5606	0.4120
LE3.7.....	0.6490	0.5015	0.3780	0.7150	0.5092	0.3780
WE4.1.....	0.7080	0.4989	0.3560	0.6890	0.5231	0.3350
WE4.2.....	0.8120	0.5117	0.3180	0.7190	0.5429	0.4040
WE4.3.....	0.8430	0.5121	0.2990	0.7270	0.4838	0.3080
WE4.4.....	0.7900	0.4992	0.3910	0.7210	0.5083	0.3980
LE5.5.....	0.6250	0.4469	0.2890	0.6540	0.3982	0.2270



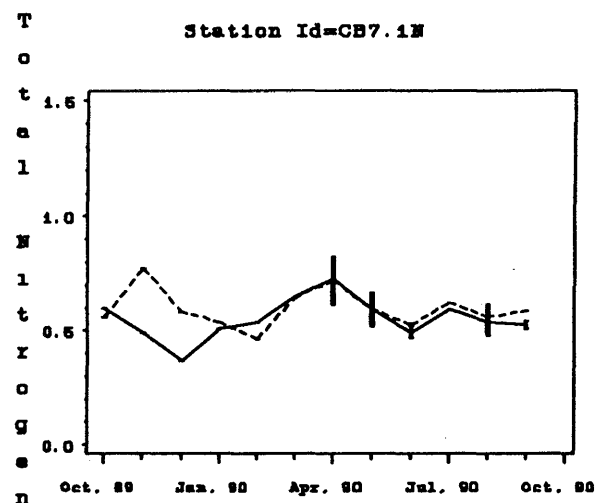




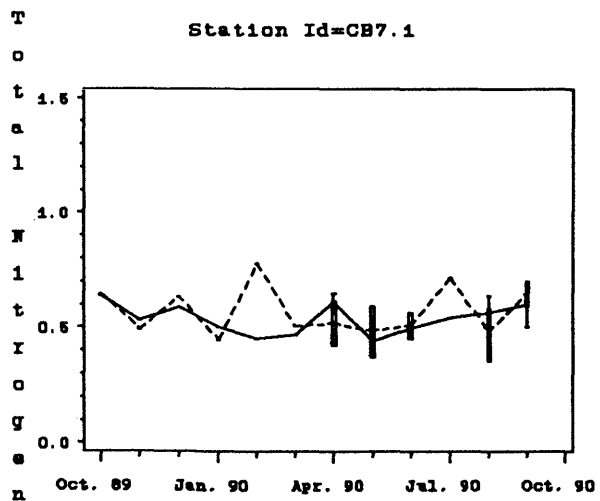
— Surface - - - - Bottom



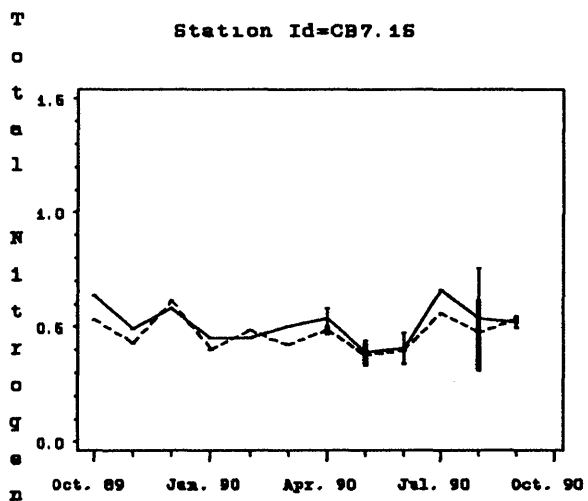
— Surface - - - - Bottom



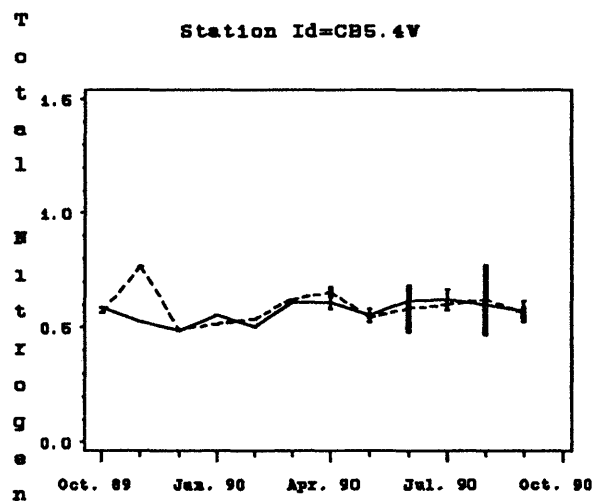
— Surface - - - - Bottom



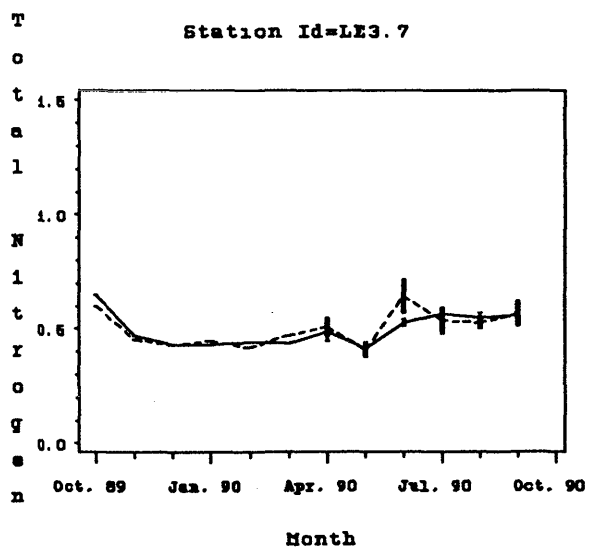
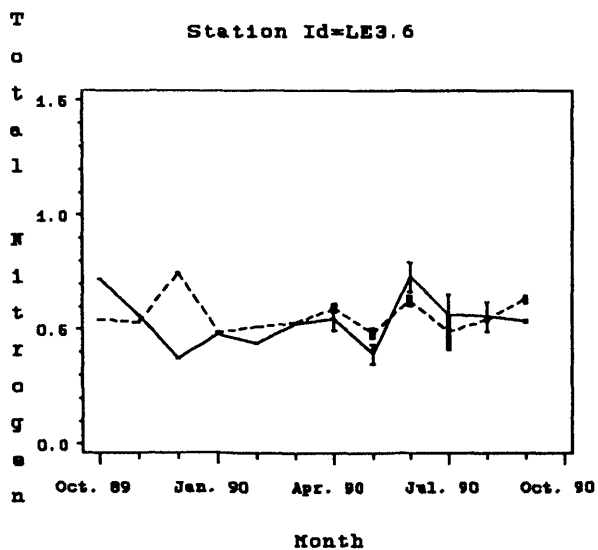
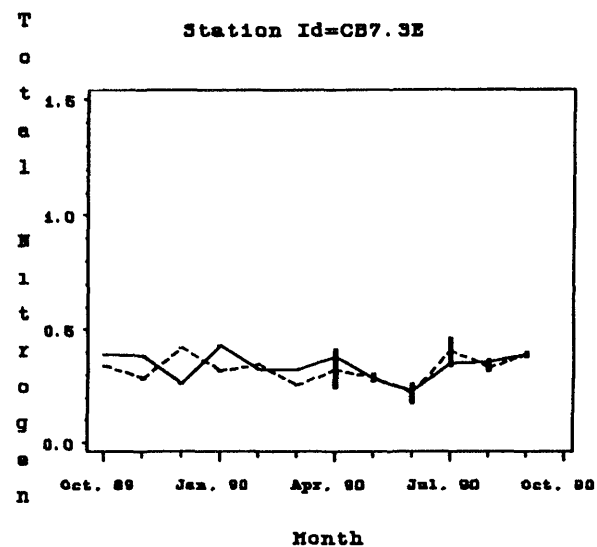
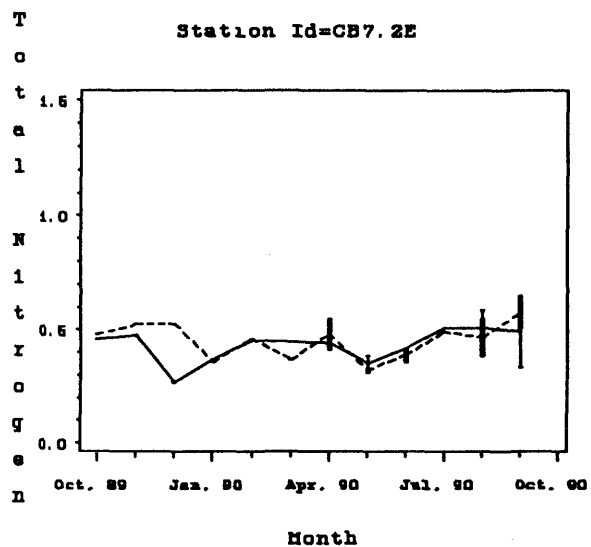
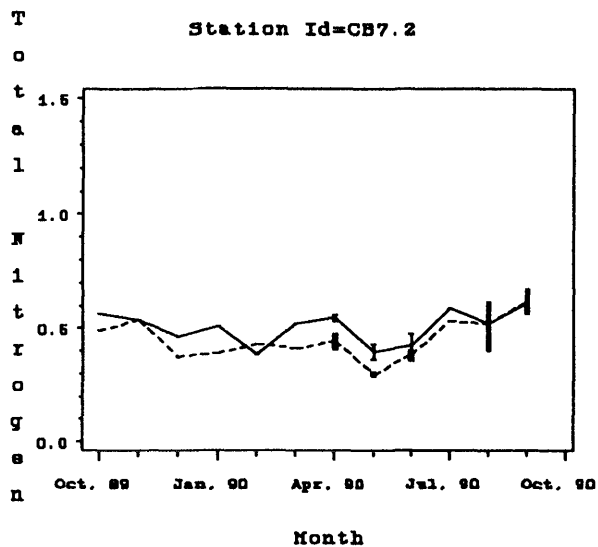
— Surface - - - - Bottom

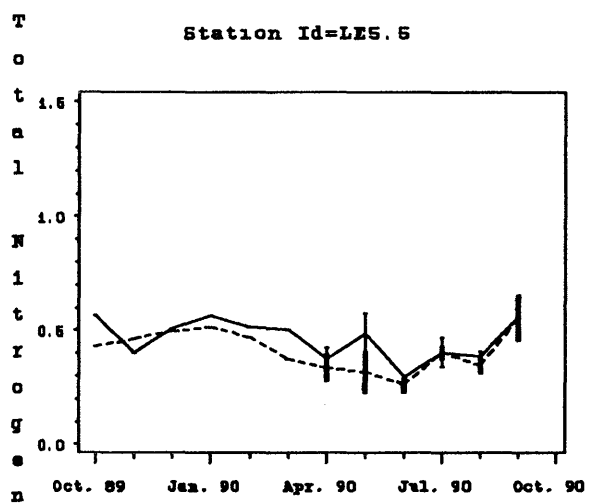
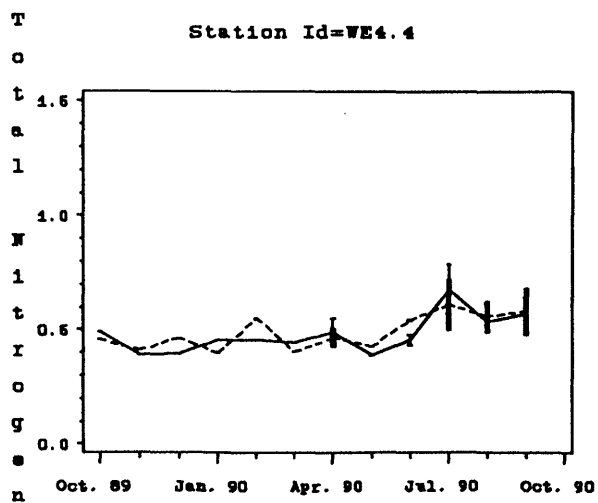
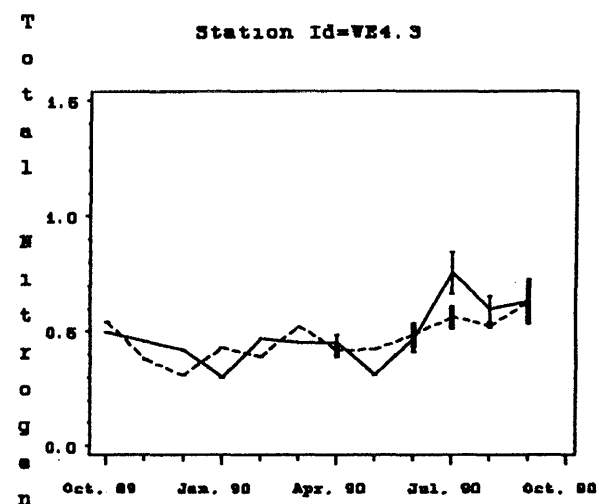
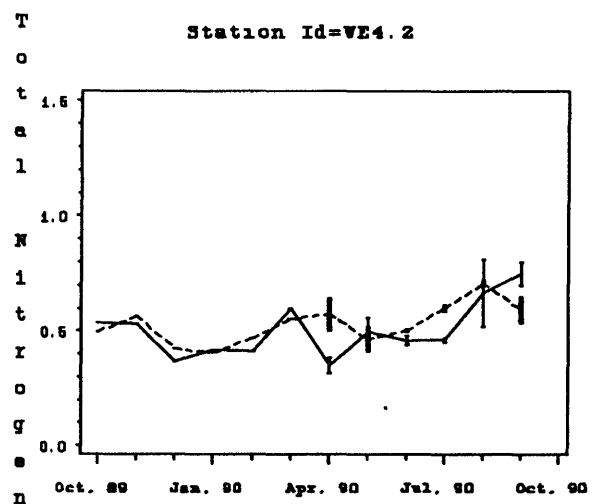
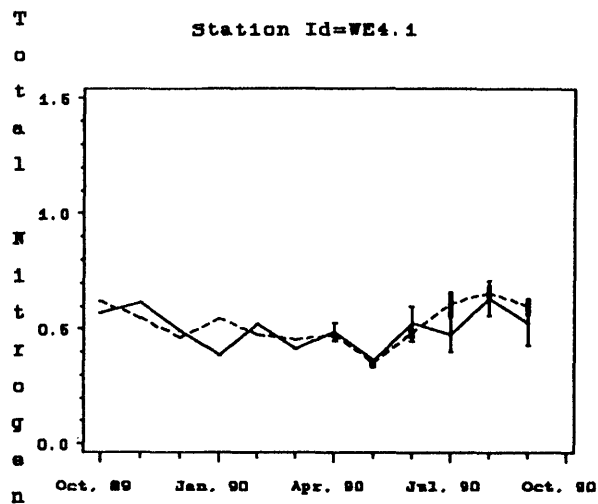


— Surface - - - - Bottom



— Surface - - - - Bottom





— Surface - - - - Bottom

— Surface - - - - Bottom

— Surface - - - - Bottom

— Surface - - - - Bottom

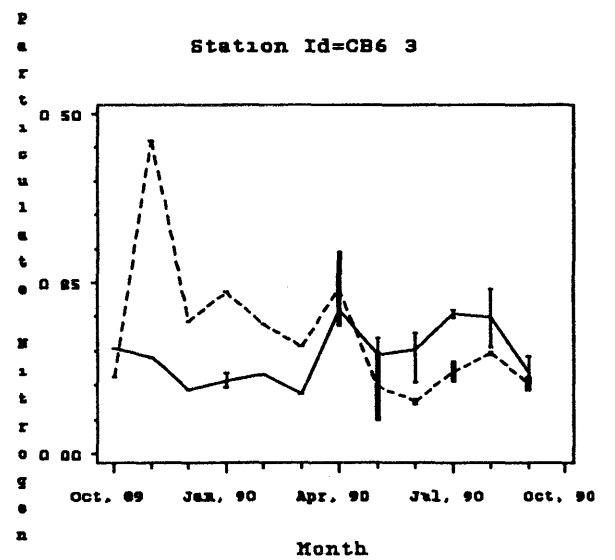
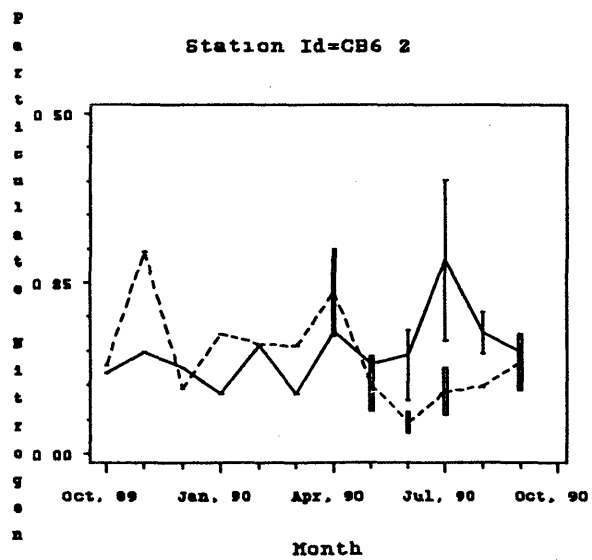
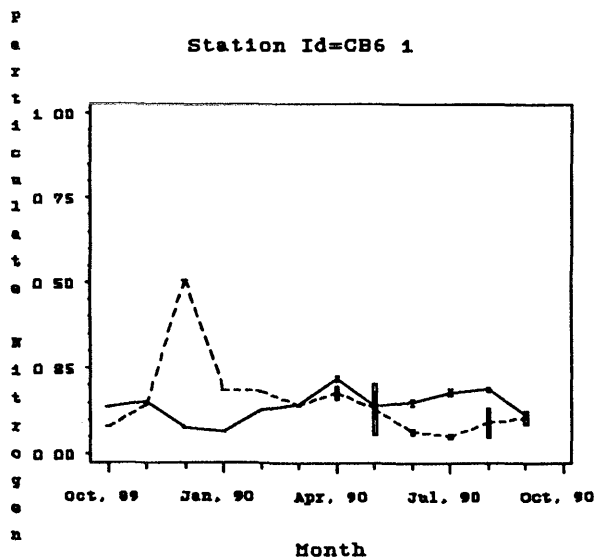
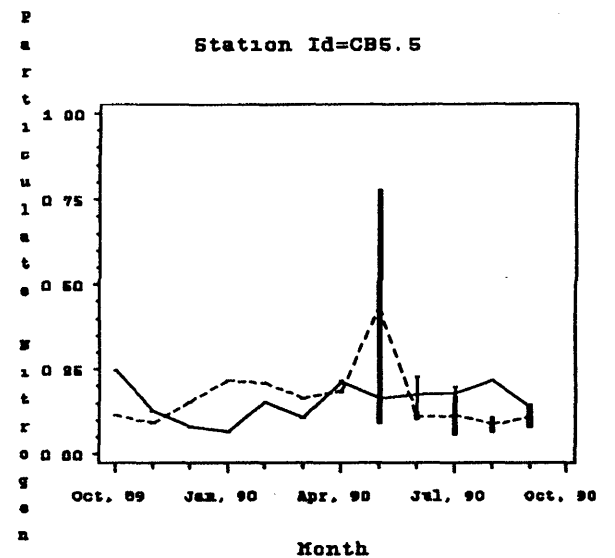
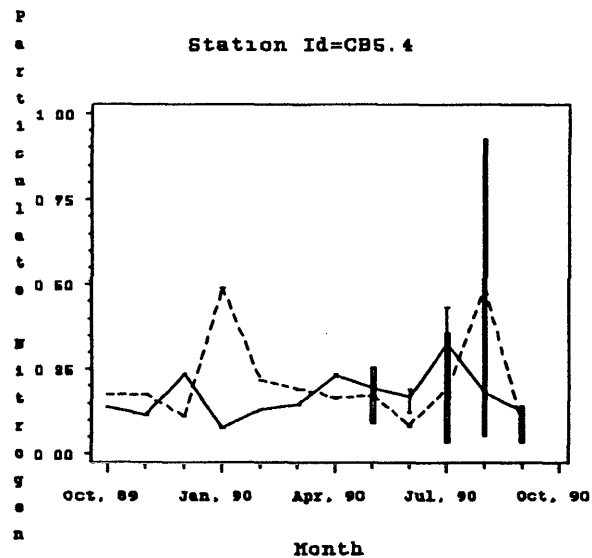
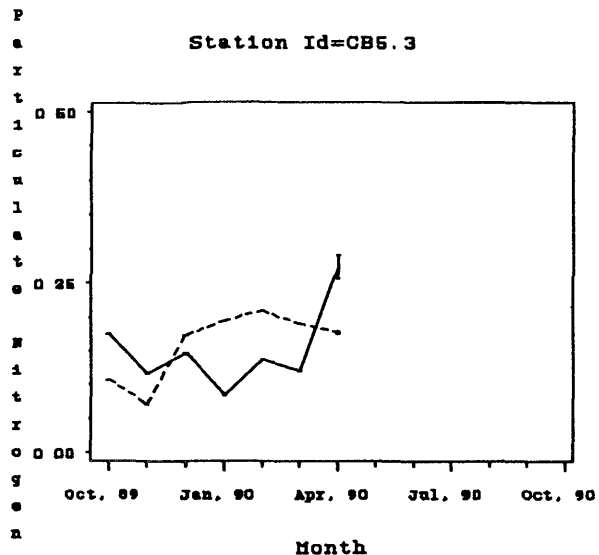
— Surface - - - - Bottom

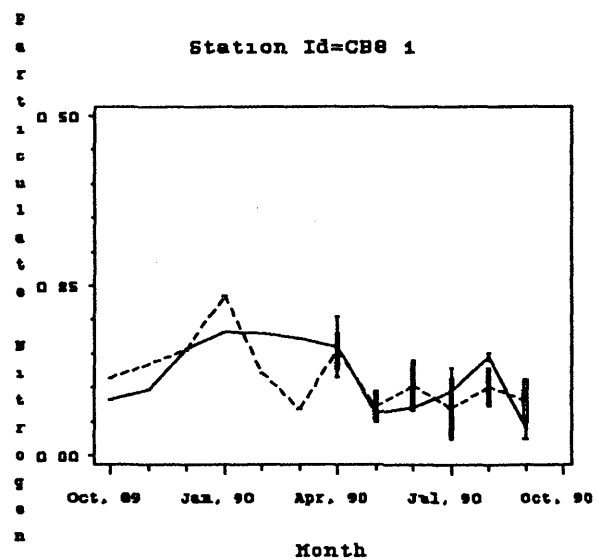
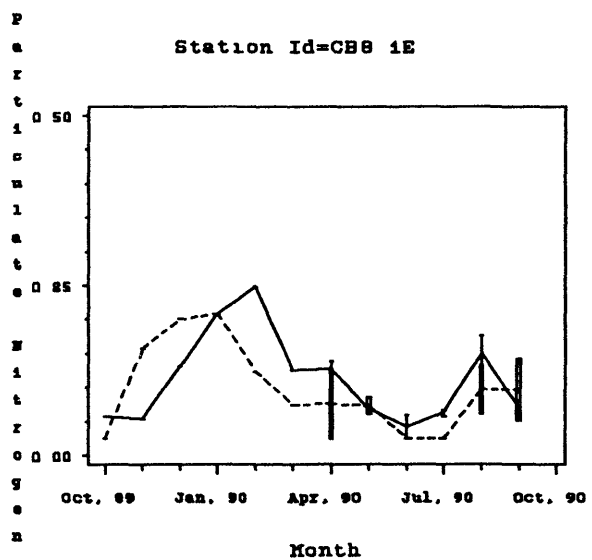
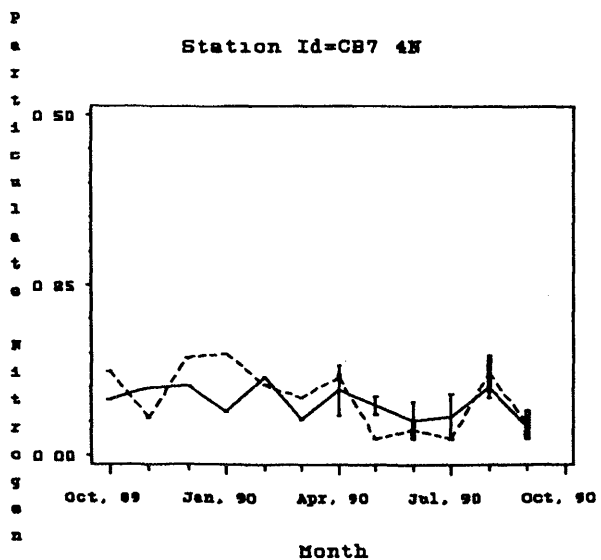
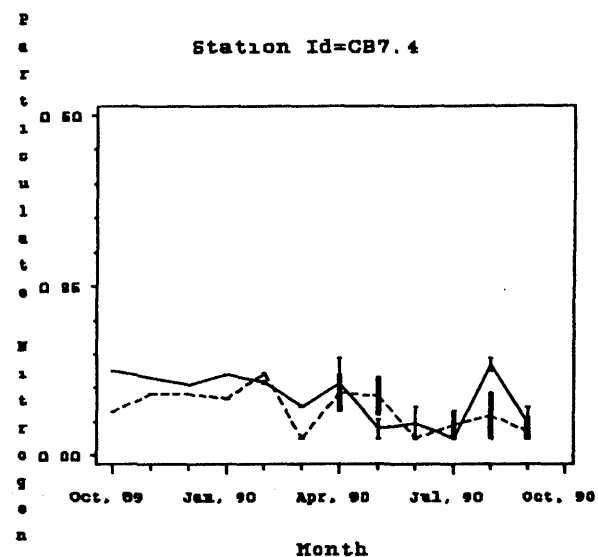
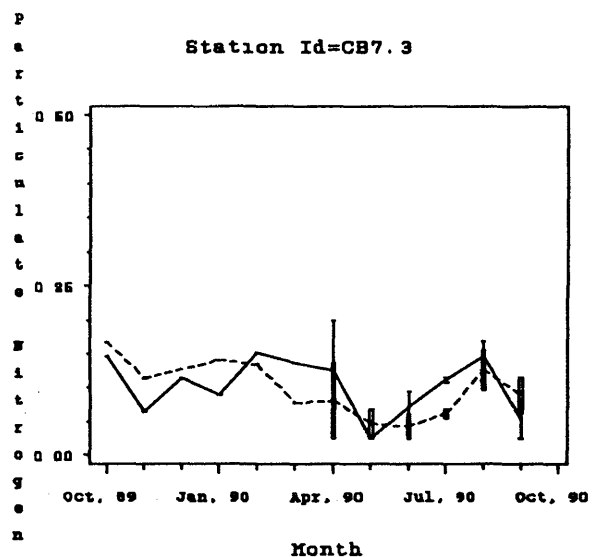
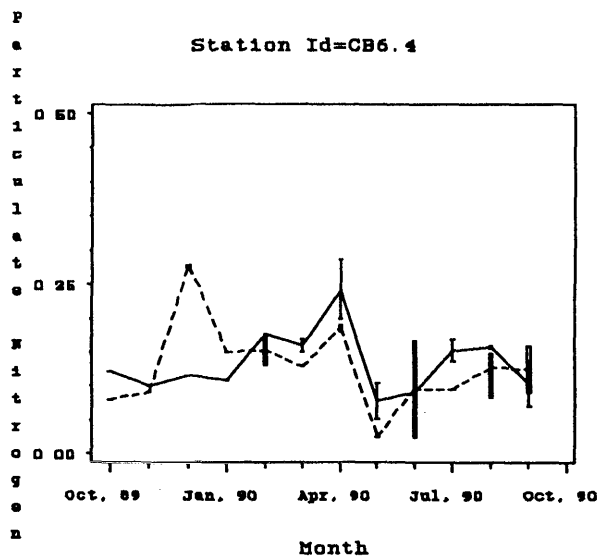
PARTICULATE NITROGEN

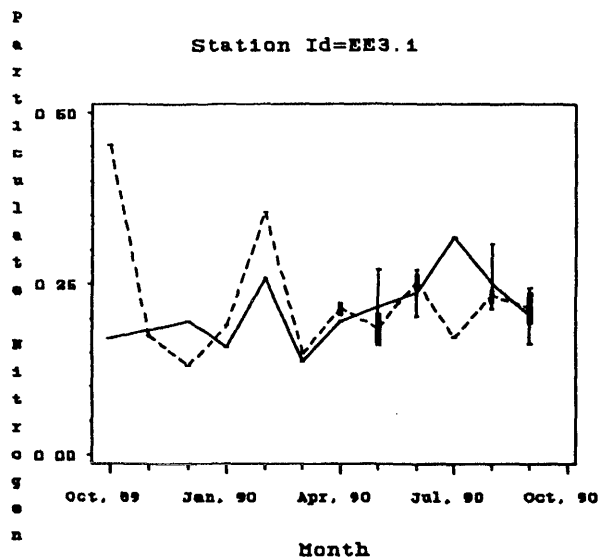
Values reported as mg/l.

Particulate Nitrogen
October, 1989 - September, 1990

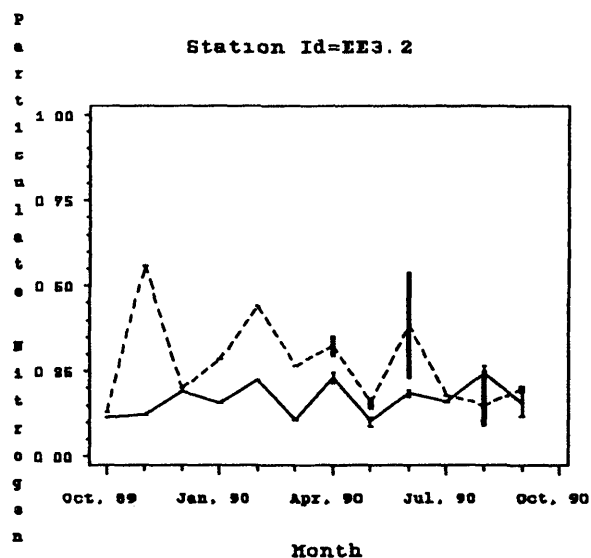
Station	Particulate Nitrogen (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.2900	0.1651	0.0830	0.2080	0.1620	0.0710
CB5.4.....	0.4320	0.1788	0.0780	0.9250	0.2083	0.0350
CB5.5.....	0.2460	0.1619	0.0640	0.7750	0.1677	0.0560
CB6.1.....	0.2290	0.1554	0.0660	0.5080	0.1347	0.0470
CB6.2.....	0.4020	0.1576	0.0770	0.2990	0.1347	0.0310
CB6.3.....	0.2410	0.1516	0.0880	0.4600	0.1621	0.0490
CB6.4.....	0.2860	0.1399	0.0510	0.2780	0.1321	0.0250
CB7.3.....	0.2000	0.0983	0.0250	0.1670	0.0900	0.0250
CB7.4.....	0.1450	0.0801	0.0250	0.1210	0.0635	0.0250
CB7.4N.....	0.1330	0.0756	0.0250	0.1500	0.0781	0.0250
CB8.1E.....	0.2480	0.1032	0.0250	0.2090	0.0874	0.0250
CB8.1.....	0.2040	0.1121	0.0250	0.2350	0.1094	0.0250
EE3.1.....	0.3180	0.2171	0.1360	0.4530	0.2253	0.1310
EE3.2.....	0.2670	0.1744	0.0890	0.5580	0.2571	0.0900
CB7.1N.....	0.2560	0.1602	0.1030	0.3890	0.1901	0.0930
CB7.1.....	0.2230	0.1506	0.0760	0.3940	0.1646	0.0570
CB7.1S.....	0.2340	0.1346	0.0540	0.2160	0.1159	0.0540
CB5.4W.....	0.2950	0.1885	0.0830	0.2640	0.1787	0.0790
CB7.2.....	0.2270	0.1522	0.0780	0.1860	0.1328	0.0560
CB7.2E.....	0.1690	0.1282	0.0830	0.2050	0.1087	0.0400
CB7.3E.....	0.1840	0.1049	0.0250	0.2010	0.1089	0.0250
LE3.6.....	0.2350	0.1537	0.0810	0.3500	0.1658	0.1020
LE3.7.....	0.2200	0.1622	0.0910	0.2230	0.1568	0.0980
WE4.1.....	0.2140	0.1391	0.0820	0.2190	0.1541	0.0770
WE4.2.....	0.2930	0.1219	0.0590	0.2320	0.1404	0.0750
WE4.3.....	0.2590	0.1561	0.0710	0.2110	0.1394	0.0850
WE4.4.....	0.2430	0.1362	0.0790	0.2220	0.1484	0.0800
LE5.5.....	0.2250	0.1382	0.0690	0.2920	0.1292	0.0250



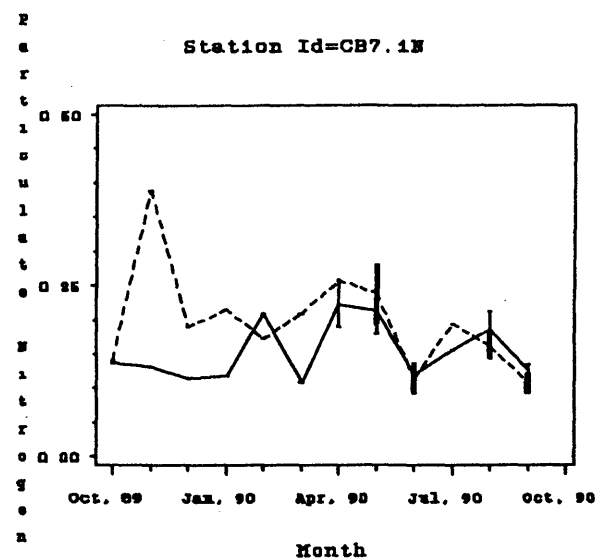




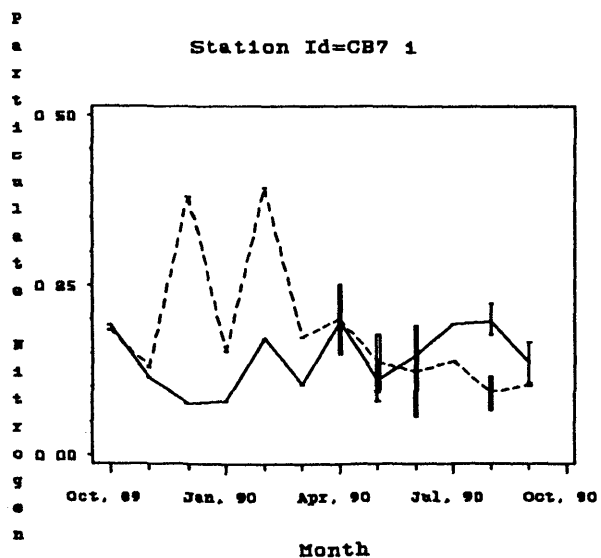
— Surface - - - - Bottom



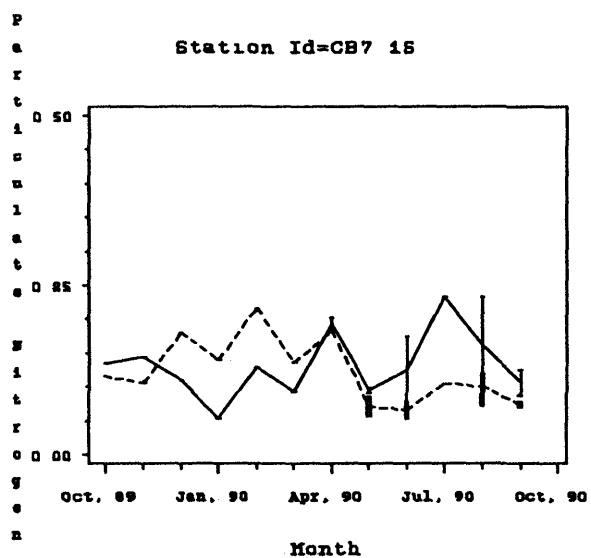
— Surface - - - - Bottom



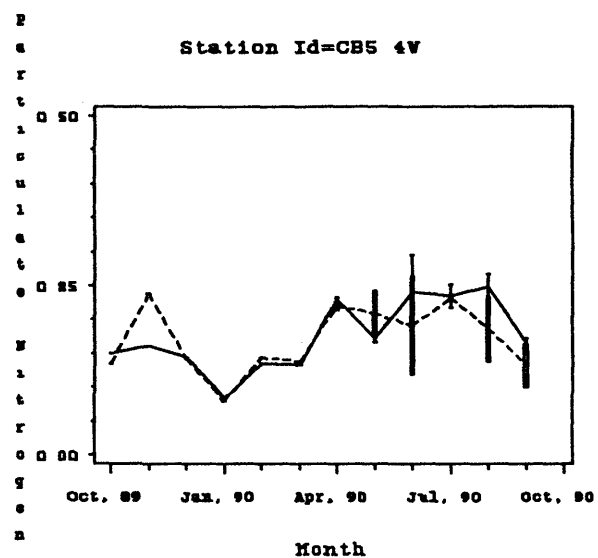
— Surface - - - - Bottom



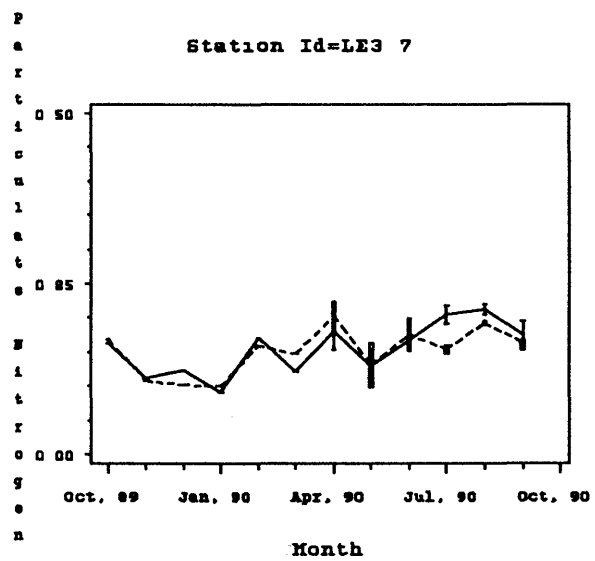
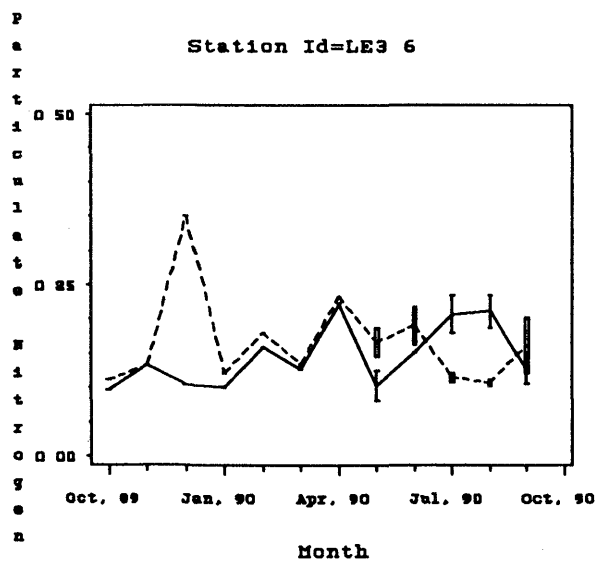
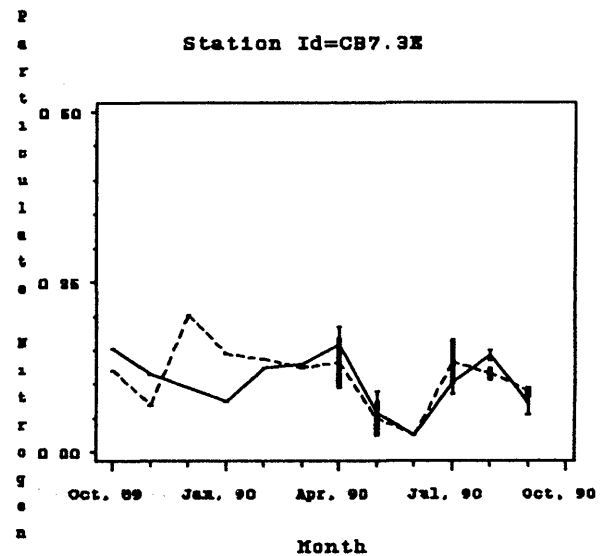
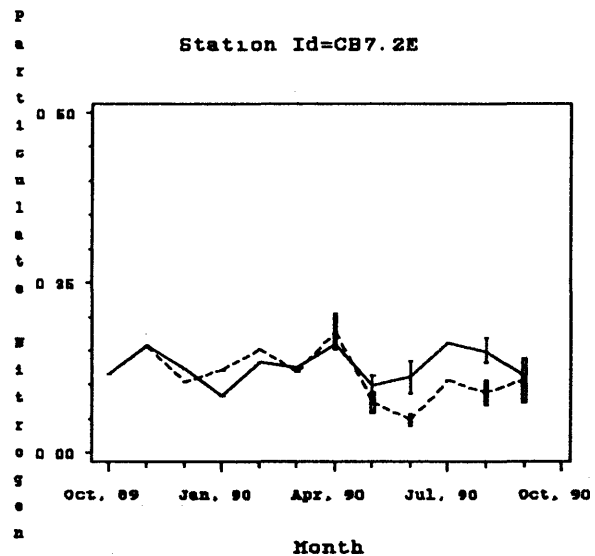
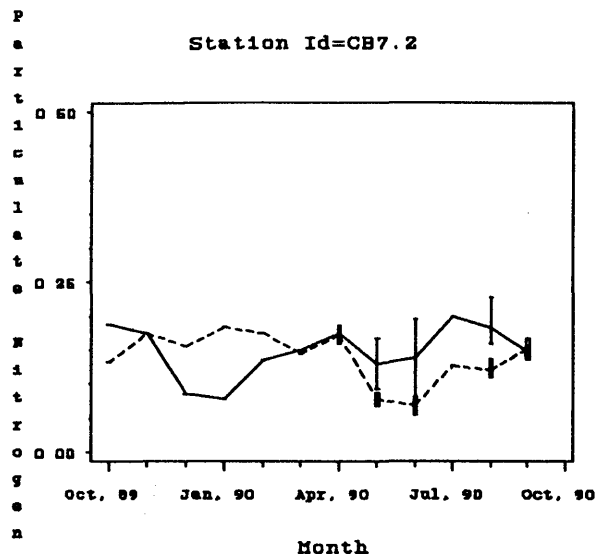
— Surface - - - - Bottom

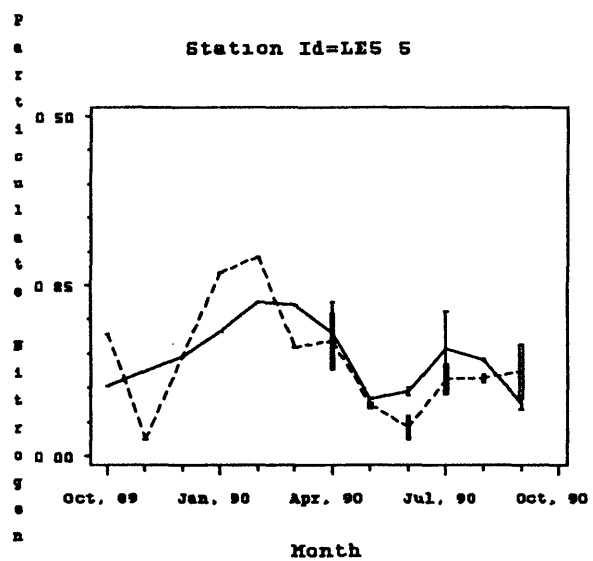
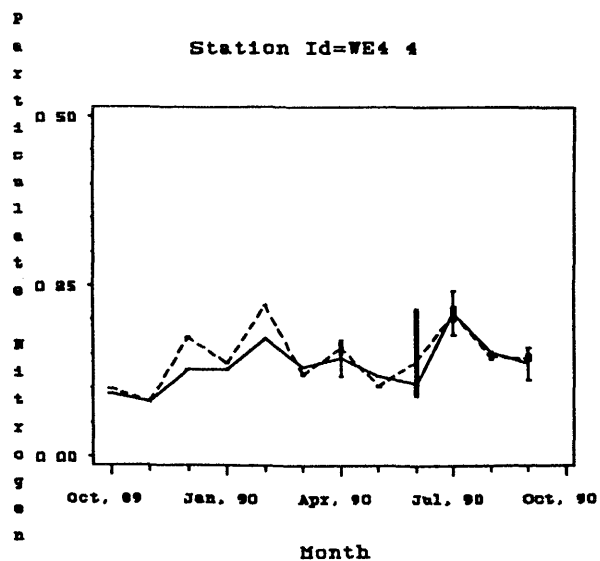
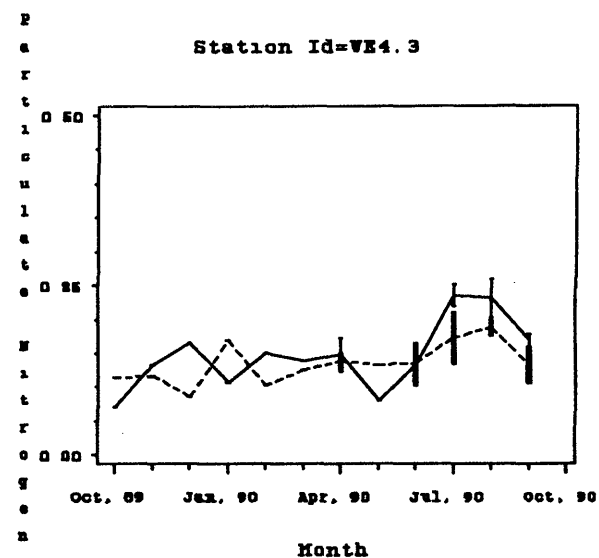
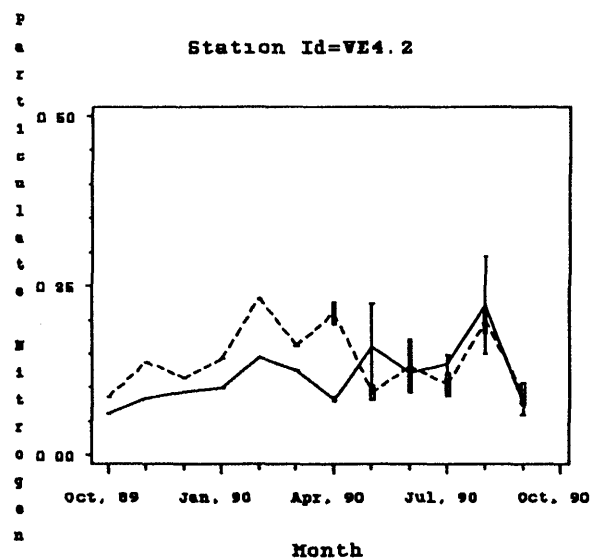
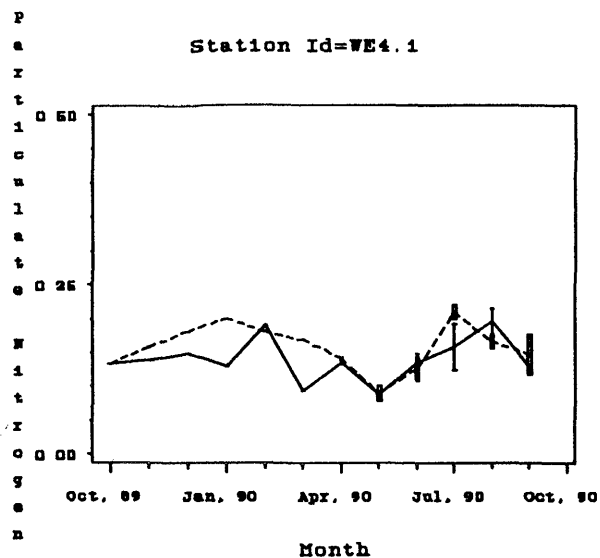


— Surface - - - - Bottom



— Surface - - - - Bottom



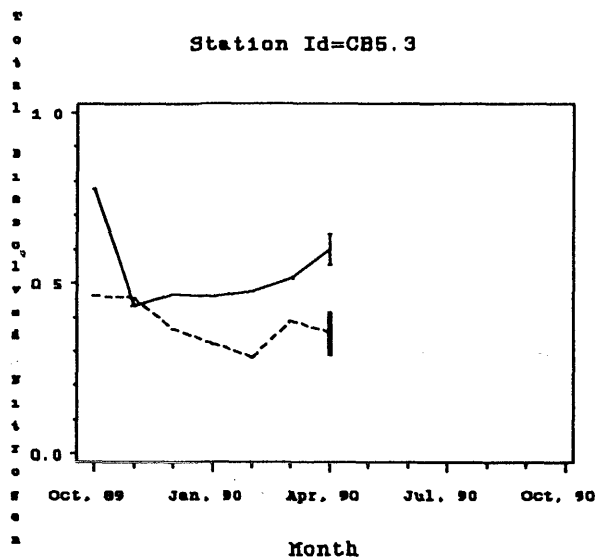


TOTAL DISSOLVED NITROGEN

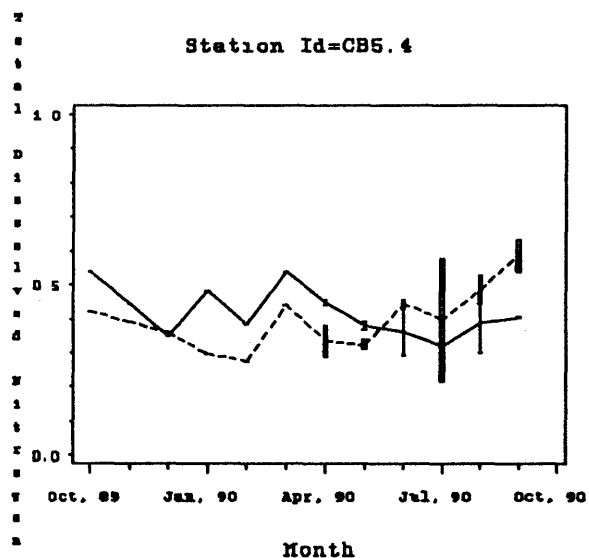
Values reported as mg/l.

Total Dissolved Nitrogen
October, 1989 - September, 1990

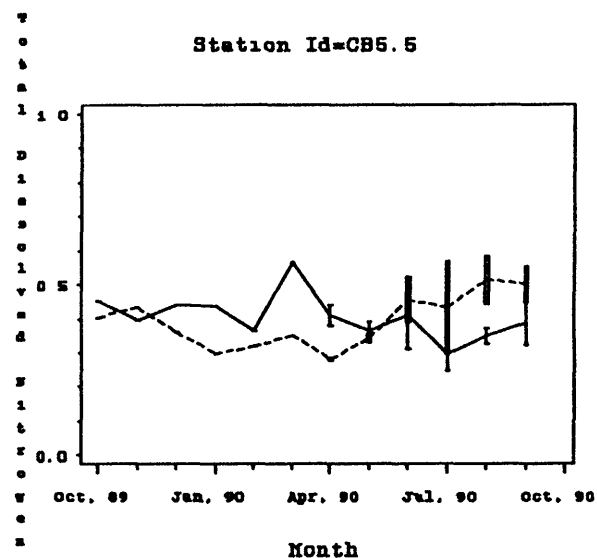
Station	Total Dissolved Nitrogen (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.7750	0.5390	0.4320	0.4610	0.3720	0.2810
CB5.4.....	0.5370	0.4041	0.2930	0.6340	0.4064	0.2160
CB5.5.....	0.5630	0.3926	0.2460	0.5850	0.4006	0.2770
CB6.1.....	0.5170	0.3776	0.2940	0.5520	0.3806	0.2280
CB6.2.....	0.6650	0.3788	0.2700	0.4930	0.3688	0.2420
CB6.3.....	0.4960	0.3590	0.2820	0.5130	0.3741	0.2120
CB6.4.....	0.3850	0.2662	0.1810	0.4320	0.2808	0.1600
CB7.3.....	0.3240	0.2431	0.1790	0.3310	0.1981	0.1220
CB7.4.....	0.3290	0.1918	0.0980	0.3200	0.1634	0.0910
CB7.4N.....	0.2990	0.1779	0.0810	0.3350	0.1568	0.0700
CB8.1E.....	0.4530	0.2329	0.1170	0.4380	0.1859	0.1070
CB8.1.....	0.4030	0.2698	0.1280	0.5060	0.2399	0.1280
EE3.1.....	0.5180	0.4234	0.3090	0.5540	0.4099	0.3200
EE3.2.....	0.5390	0.4109	0.2880	0.5690	0.4094	0.2880
CB7.1N.....	0.5750	0.3957	0.2520	0.5650	0.4036	0.2900
CB7.1.....	0.5220	0.3876	0.2700	0.5940	0.3892	0.2520
CB7.1S.....	0.6090	0.3702	0.1790	0.4930	0.3531	0.2030
CB5.4W.....	0.4790	0.3887	0.3250	0.5390	0.4113	0.2970
CB7.2.....	0.4660	0.3505	0.2490	0.5010	0.3218	0.2090
CB7.2E.....	0.5360	0.3098	0.1440	0.5010	0.3417	0.2330
CB7.3E.....	0.3550	0.2446	0.1760	0.3050	0.2213	0.1290
LE3.6.....	0.6430	0.3881	0.2680	0.4960	0.3948	0.2900
LE3.7.....	0.4850	0.3393	0.2680	0.5630	0.3524	0.2560
WE4.1.....	0.5320	0.3598	0.2560	0.5130	0.3690	0.2580
WE4.2.....	0.7400	0.3897	0.2390	0.5410	0.4025	0.2370
WE4.3.....	0.5910	0.3551	0.1920	0.6210	0.3422	0.2230
WE4.4.....	0.6120	0.3602	0.2690	0.5330	0.3565	0.2580
LE5.5.....	0.5560	0.3111	0.1880	0.4910	0.2681	0.1470



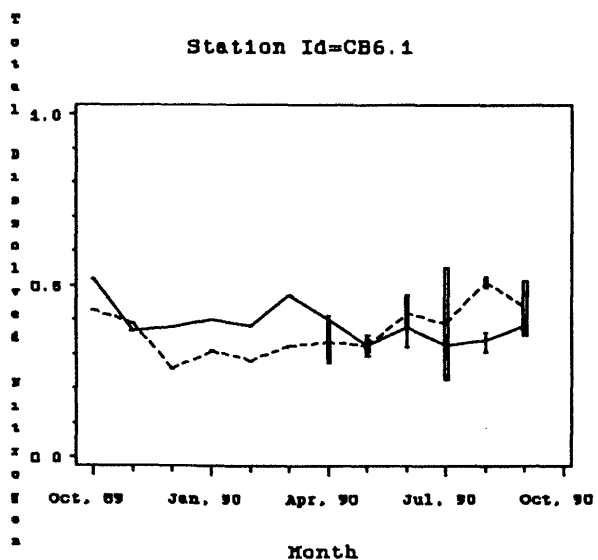
— Surface - - - - Bottom



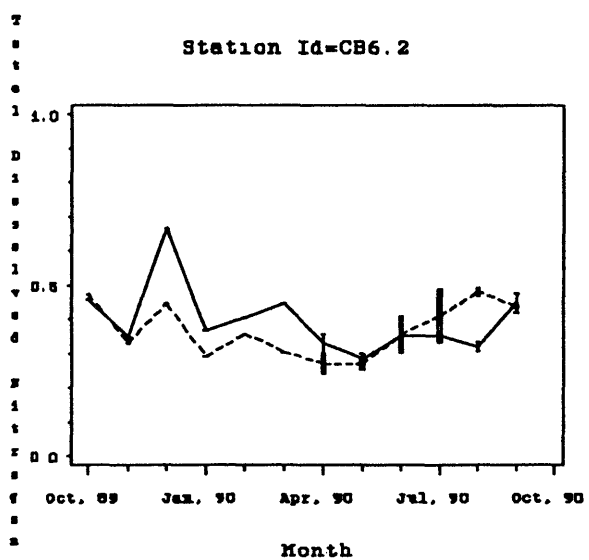
— Surface - - - - Bottom



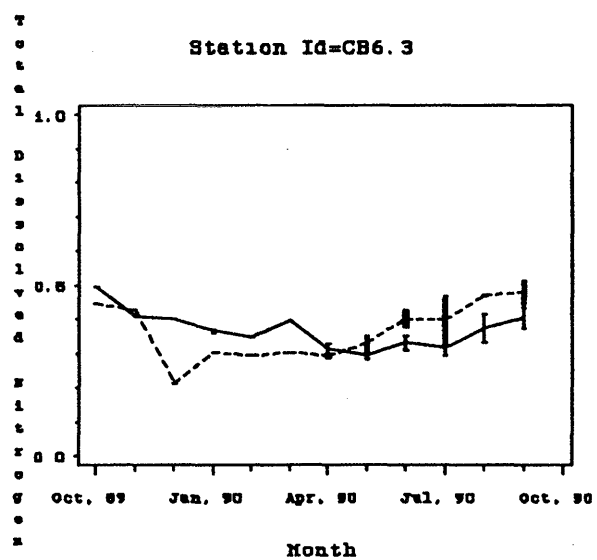
— Surface - - - - Bottom



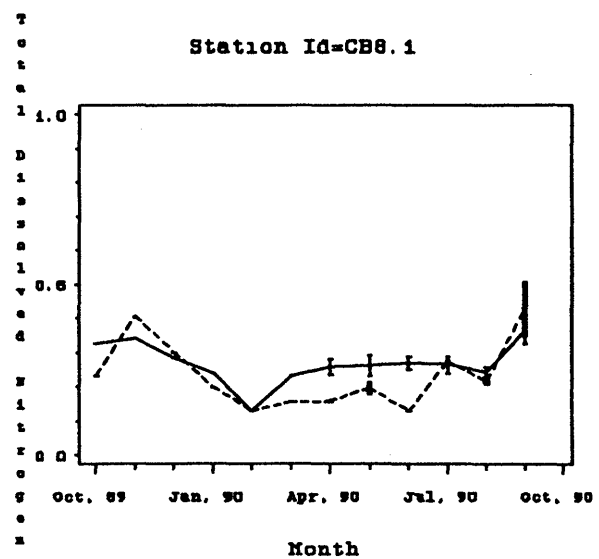
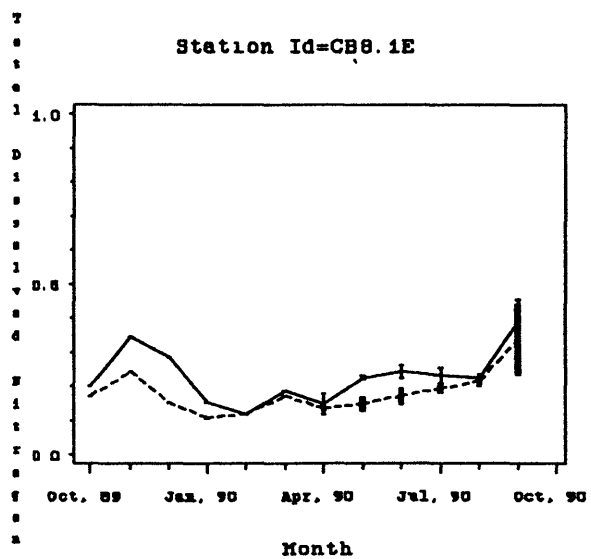
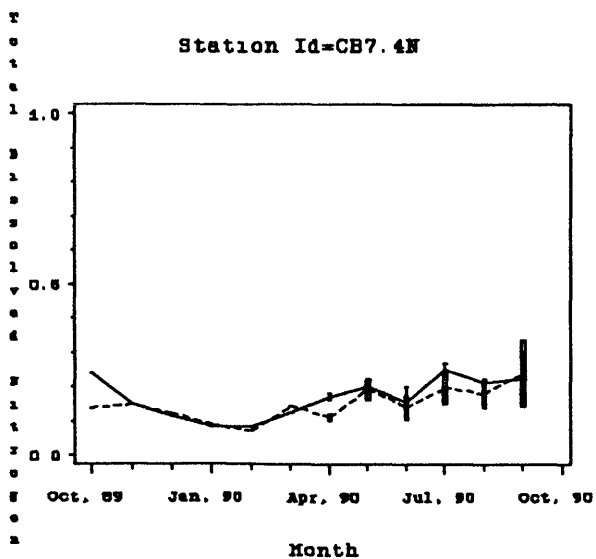
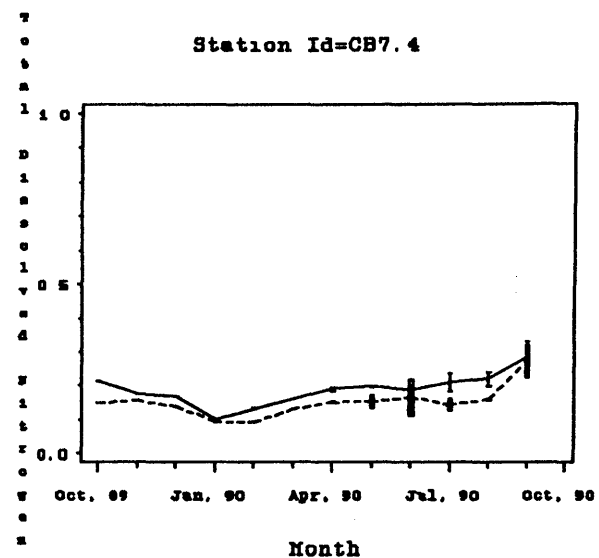
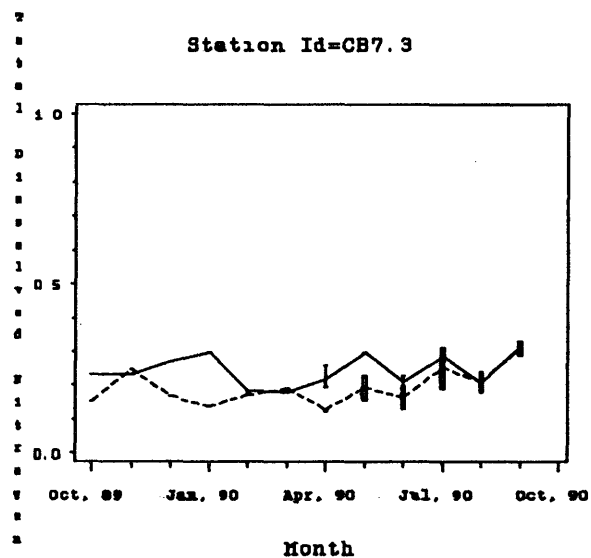
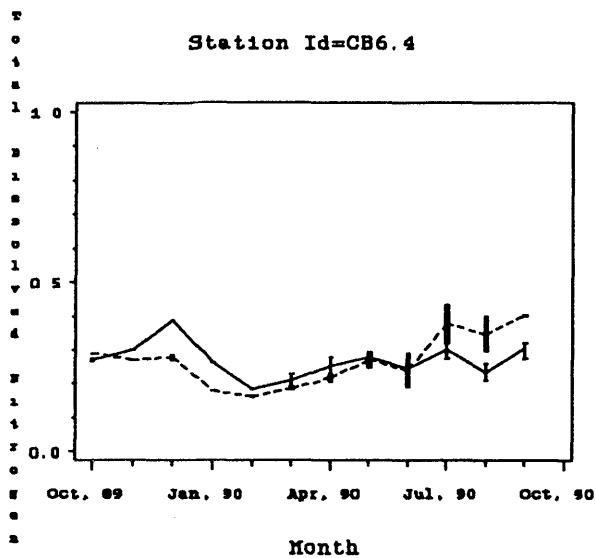
— Surface - - - - Bottom

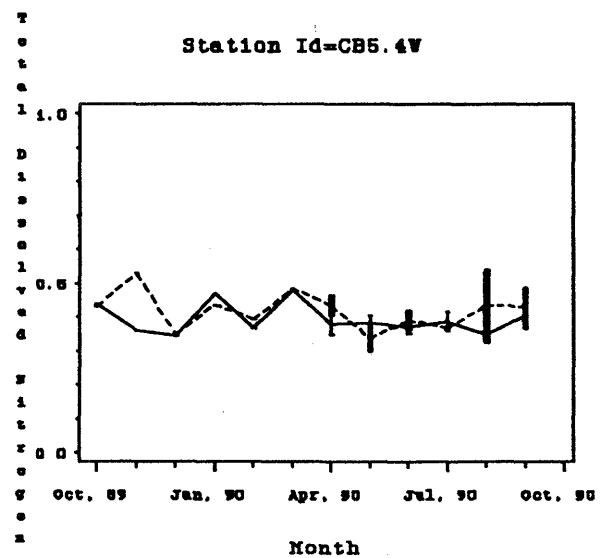
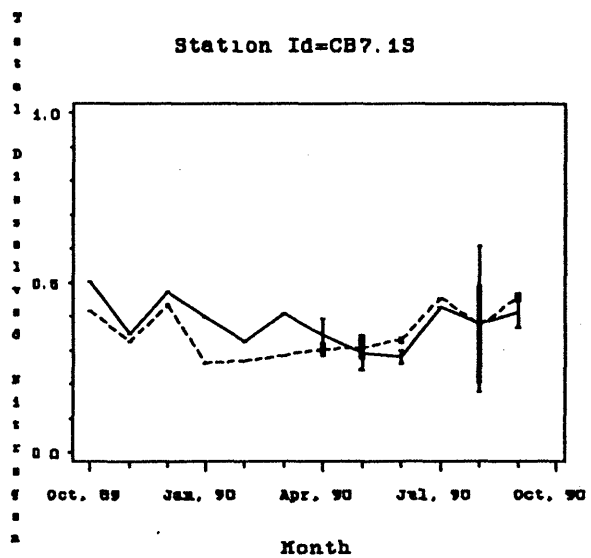
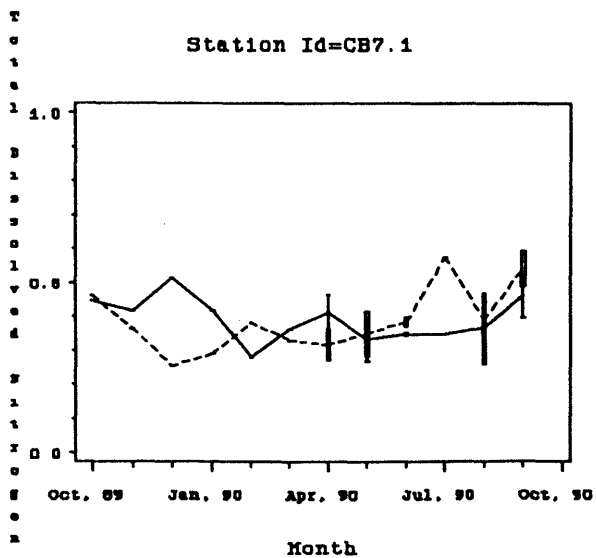
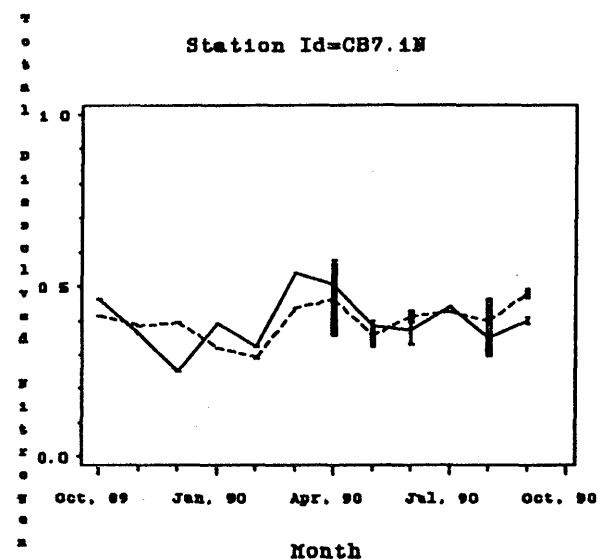
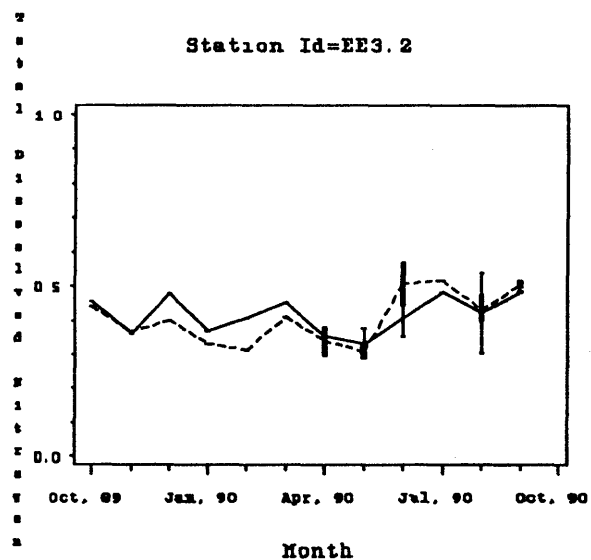
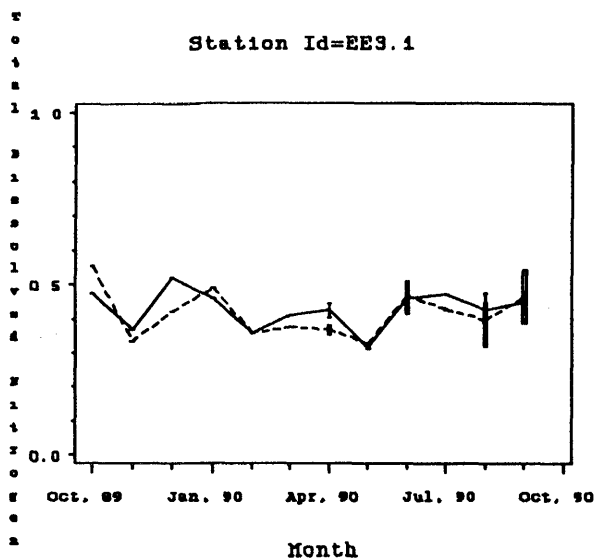


— Surface - - - - Bottom



— Surface - - - - Bottom





— Surface - - - - Bottom

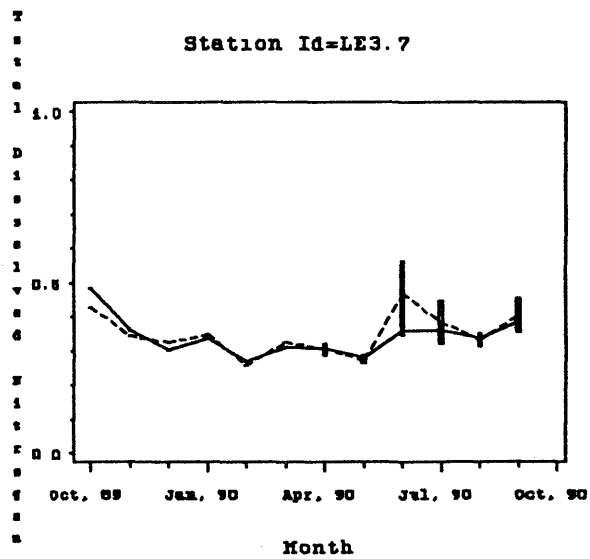
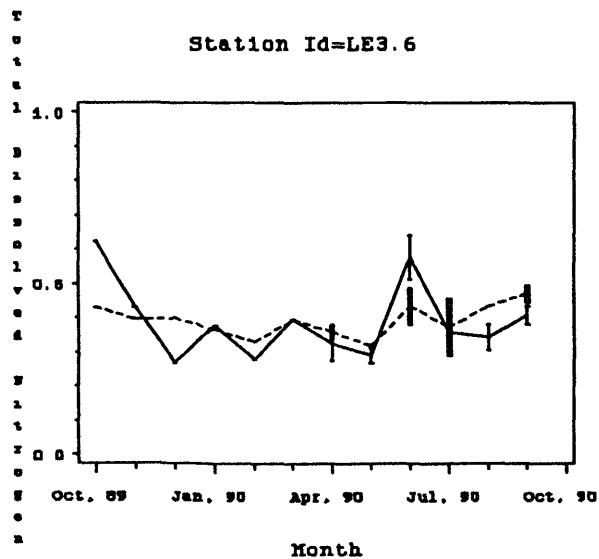
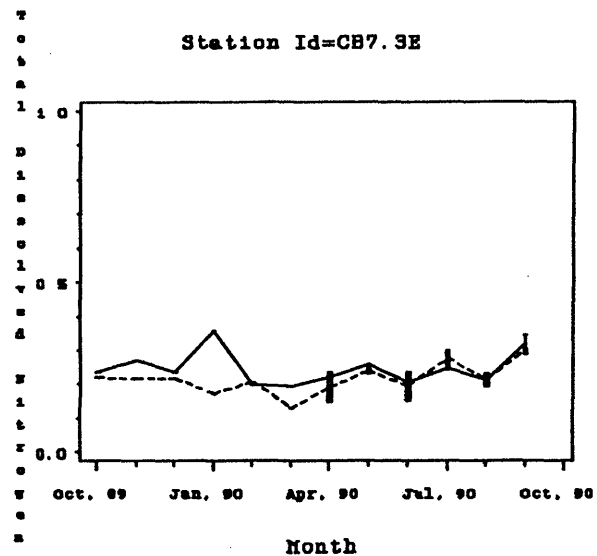
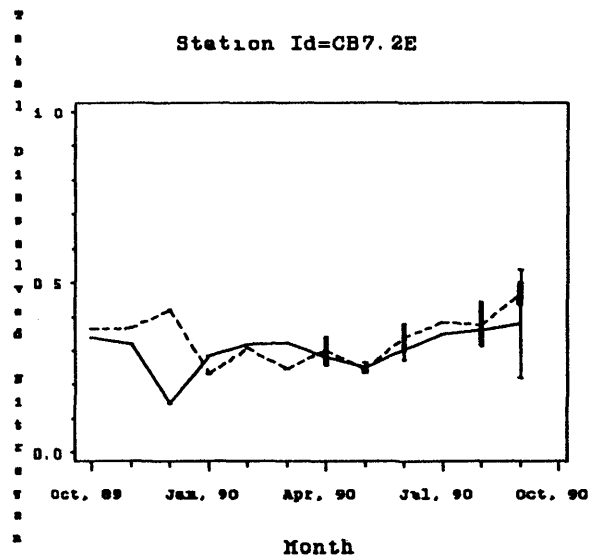
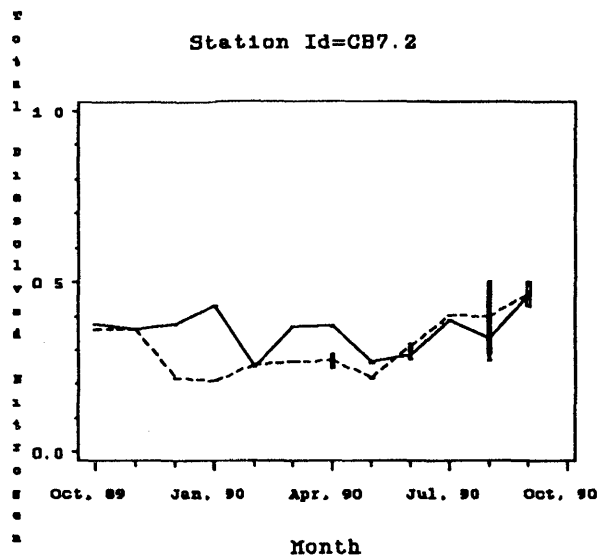
— Surface - - - - Bottom

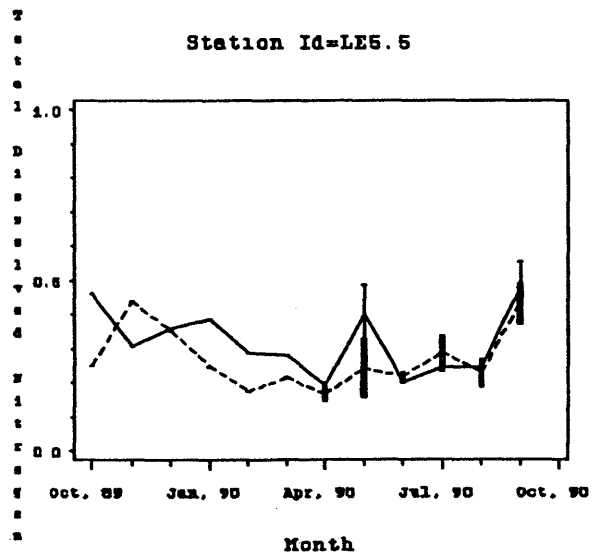
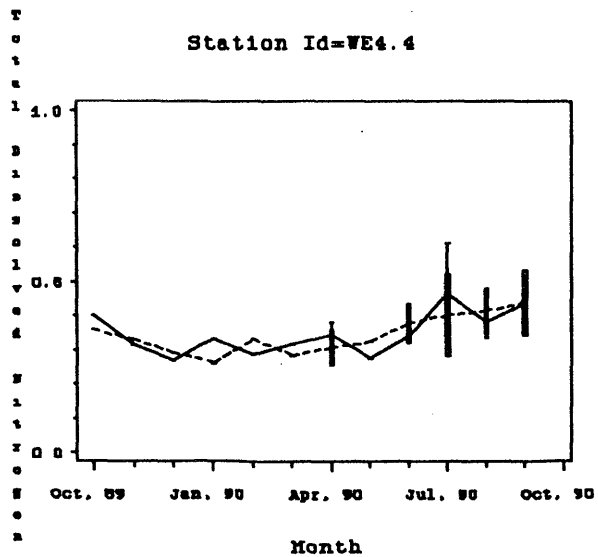
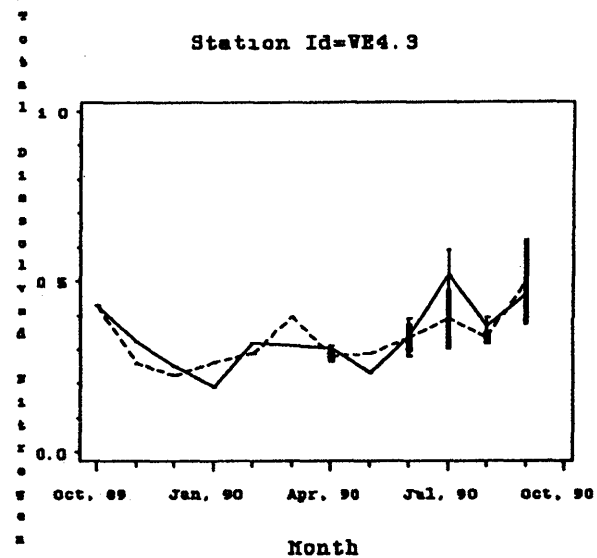
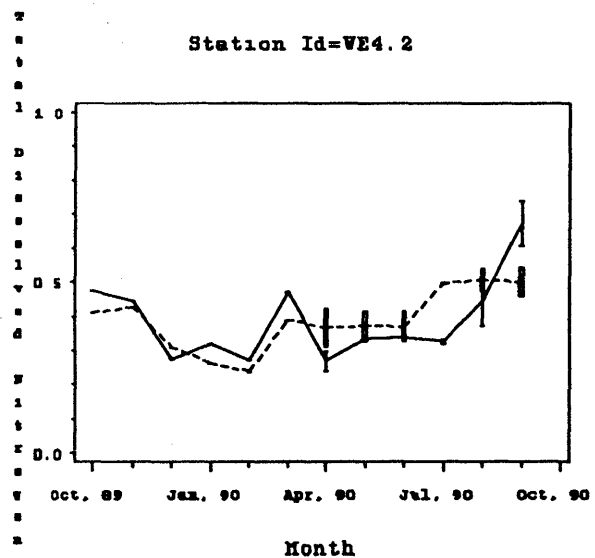
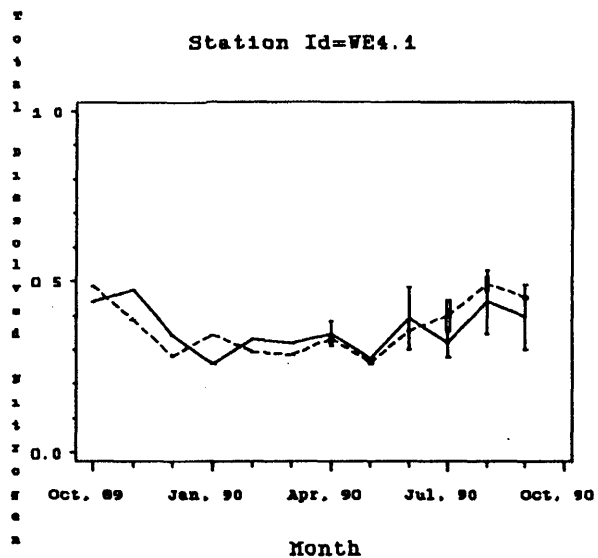
— Surface - - - - Bottom

— Surface - - - - Bottom

— Surface - - - - Bottom

— Surface - - - - Bottom





— Surface - - - - Bottom

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— Surface - - - - Bottom

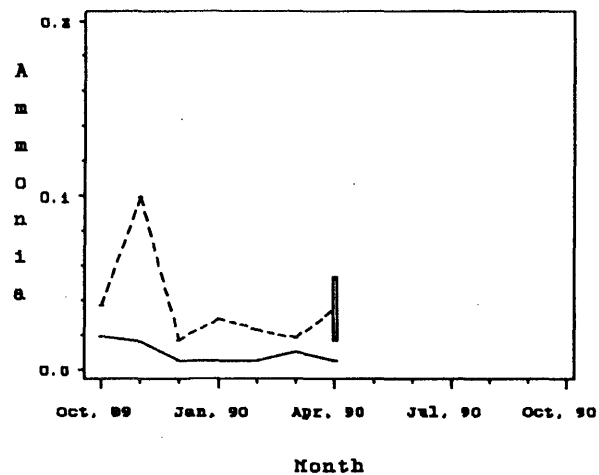
AMMONIA

Values reported as mg/l.

Ammonia
October, 1989 - September, 1990

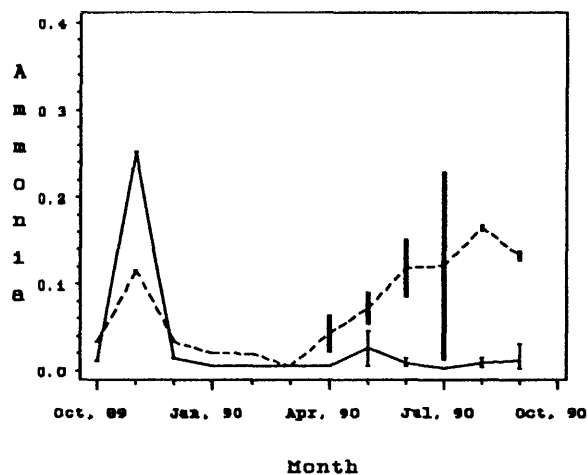
Station	Ammonia (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.0190	0.0087	0.0050	0.0990	0.0366	0.0170
CB5.4.....	0.2520	0.0215	0.0020	0.2290	0.0849	0.0050
CB5.5.....	0.0470	0.0080	0.0020	0.3650	0.0825	0.0050
CB6.1.....	0.0400	0.0092	0.0020	0.2100	0.0614	0.0050
CB6.2.....	0.0690	0.0094	0.0020	0.2200	0.0579	0.0050
CB6.3.....	0.0450	0.0109	0.0020	0.1940	0.0577	0.0050
CB6.4.....	0.0860	0.0090	0.0030	0.2470	0.0565	0.0030
CB7.3.....	0.0630	0.0117	0.0030	0.0860	0.0273	0.0030
CB7.4.....	0.0550	0.0083	0.0030	0.0800	0.0189	0.0030
CB7.4N.....	0.0590	0.0076	0.0030	0.0700	0.0078	0.0030
CB8.1E.....	0.0770	0.0180	0.0030	0.1170	0.0311	0.0030
CB8.1.....	0.0690	0.0197	0.0030	0.1020	0.0414	0.0030
EE3.1.....	0.0220	0.0080	0.0020	0.0310	0.0098	0.0020
EE3.2.....	0.0640	0.0143	0.0020	0.1920	0.0442	0.0050
CB7.1N.....	0.0620	0.0137	0.0020	0.1980	0.0495	0.0050
CB7.1.....	0.0450	0.0124	0.0020	0.2040	0.0625	0.0050
CB7.1S.....	0.0720	0.0111	0.0020	0.1800	0.0558	0.0050
CB5.4W.....	0.0670	0.0106	0.0020	0.0710	0.0119	0.0020
CB7.2.....	0.0250	0.0066	0.0020	0.1500	0.0557	0.0050
CB7.2E.....	0.0450	0.0099	0.0020	0.1320	0.0416	0.0050
CB7.3E.....	0.0500	0.0093	0.0030	0.0920	0.0277	0.0030
LE3.6.....	0.0270	0.0080	0.0020	0.1370	0.0347	0.0050
LE3.7.....	0.0130	0.0057	0.0020	0.1250	0.0161	0.0020
WE4.1.....	0.0170	0.0076	0.0020	0.0950	0.0198	0.0020
WE4.2.....	0.0950	0.0294	0.0050	0.1830	0.0722	0.0050
WE4.3.....	0.0290	0.0089	0.0020	0.2180	0.0273	0.0040
WE4.4.....	0.0390	0.0097	0.0020	0.0420	0.0074	0.0020
LE5.5.....	0.1470	0.0381	0.0030	0.1190	0.0537	0.0030

Station Id=CB5.3



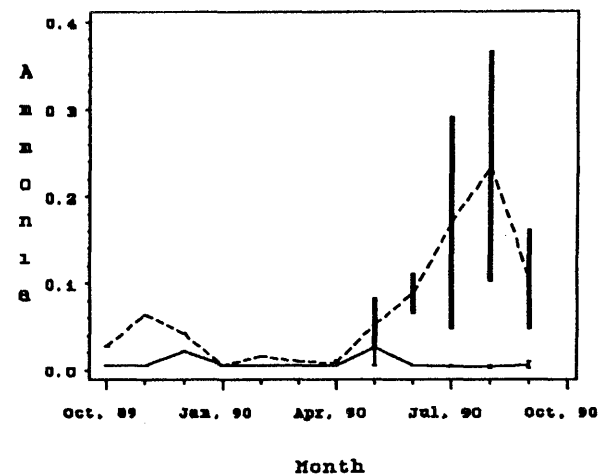
— Surface - - - - Bottom

Station Id=CB5.4



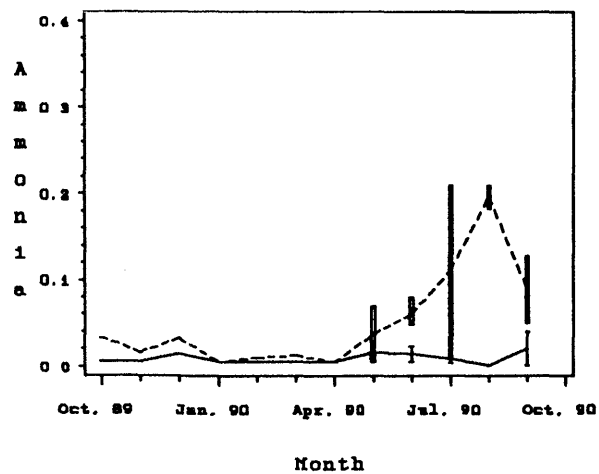
— Surface - - - - Bottom

Station Id=CB5.5



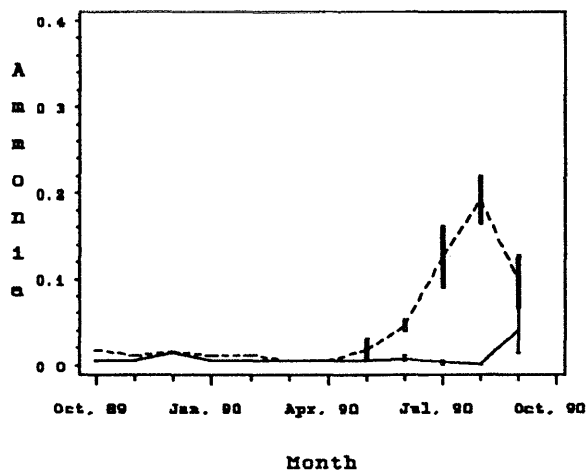
— Surface - - - - Bottom

Station Id=CB6.1



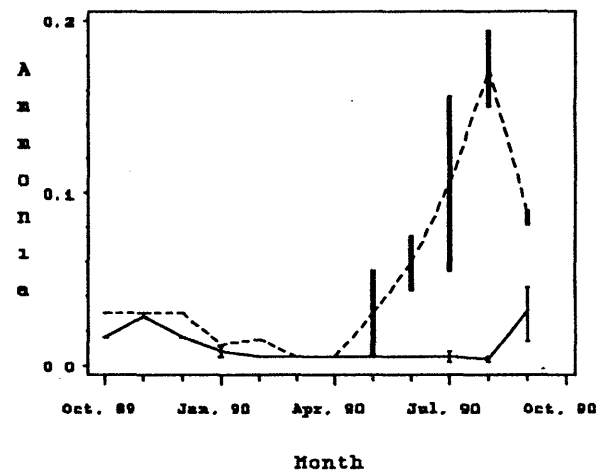
— Surface - - - - Bottom

Station Id=CB6.2



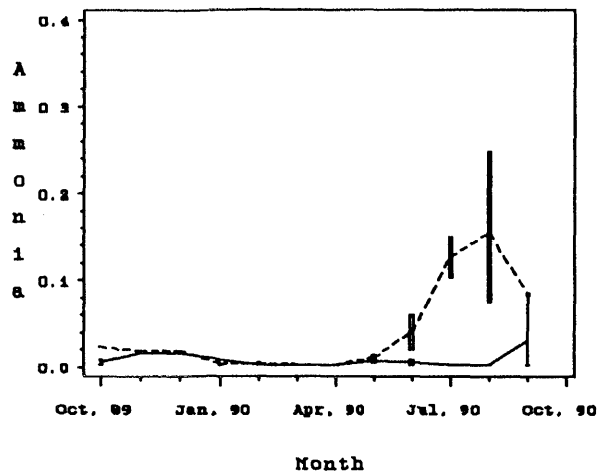
— Surface - - - - Bottom

Station Id=CB6.3

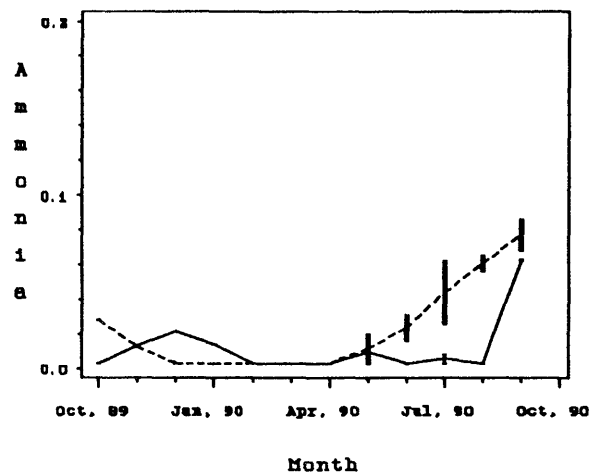


— Surface - - - - Bottom

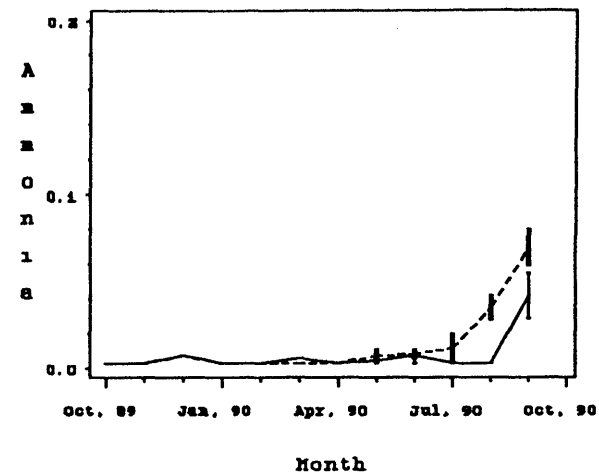
Station Id=CB6.4



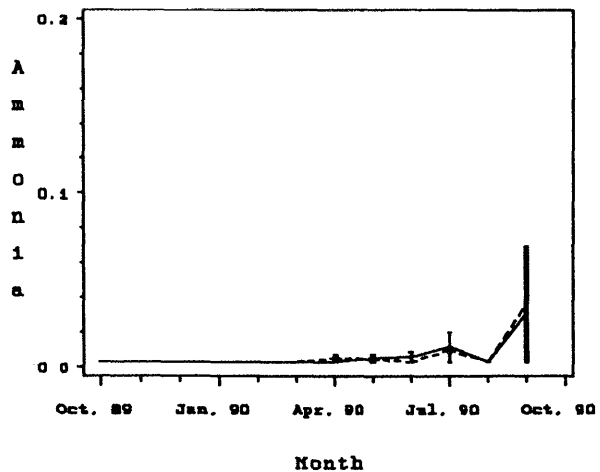
Station Id=CB7.3



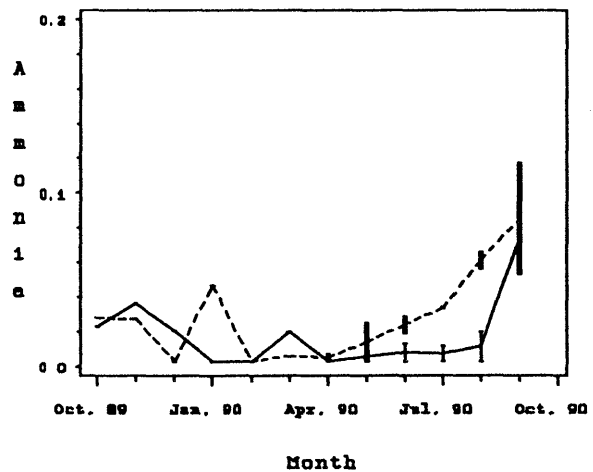
Station Id=CB7.4



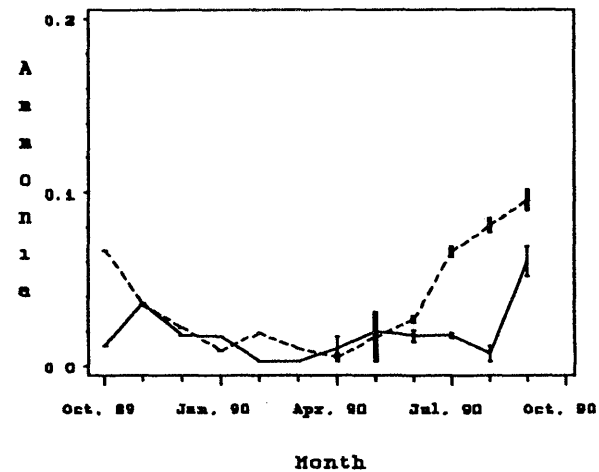
Station Id=CB7.4W



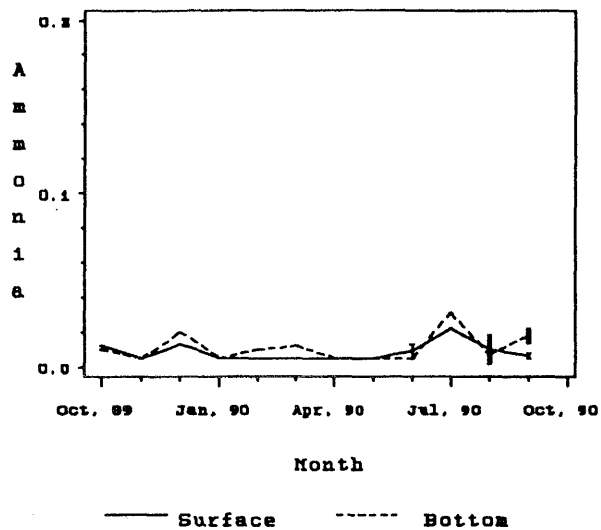
Station Id=CB8.1E



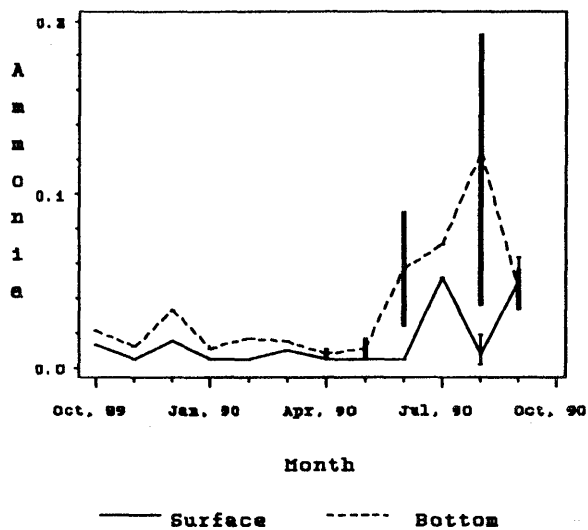
Station Id=CB8.1



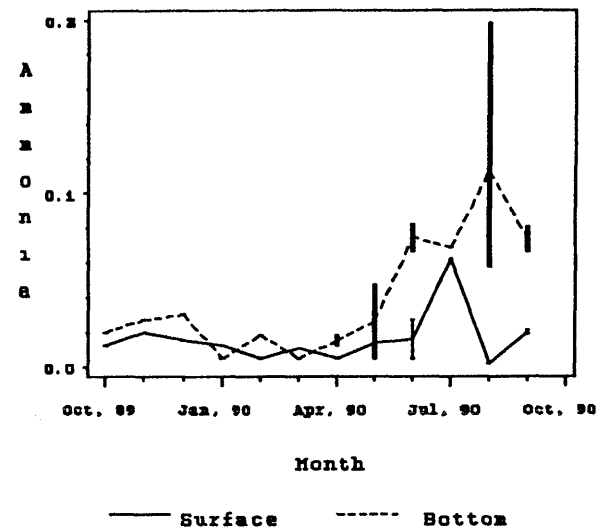
Station Id=EE3.1



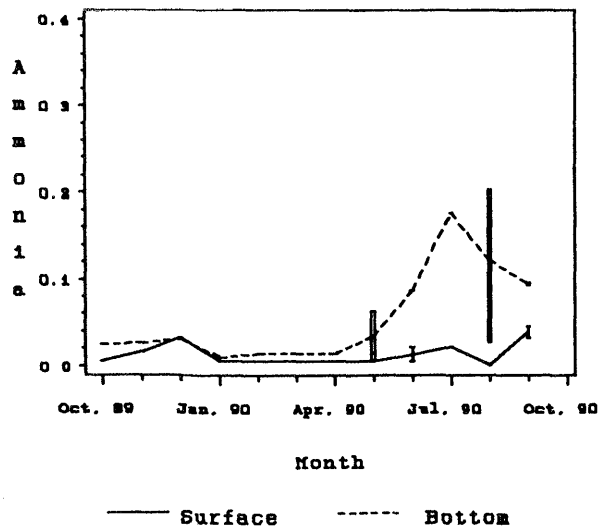
Station Id=EE3.2



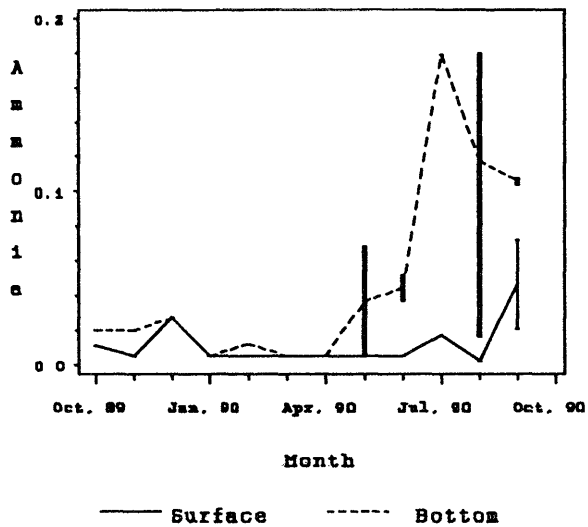
Station Id=CB7.1N



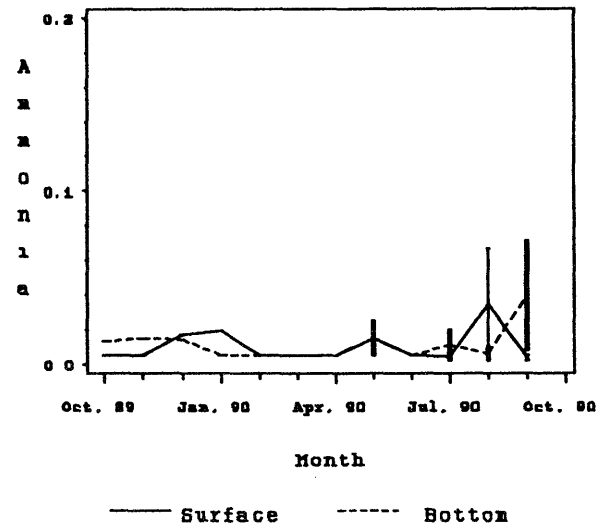
Station Id=CB7.1



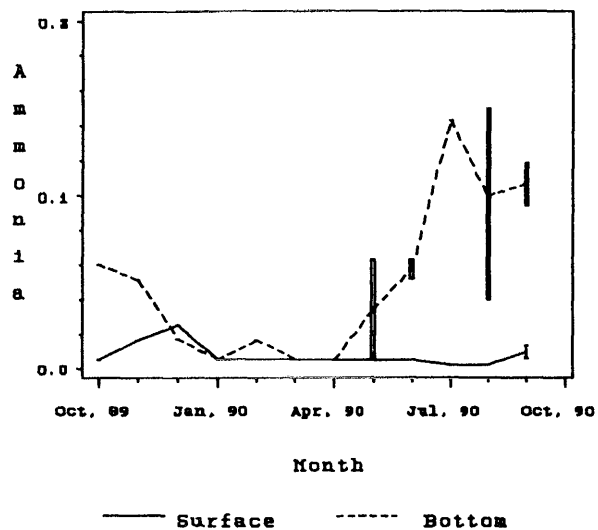
Station Id=CB7.1S



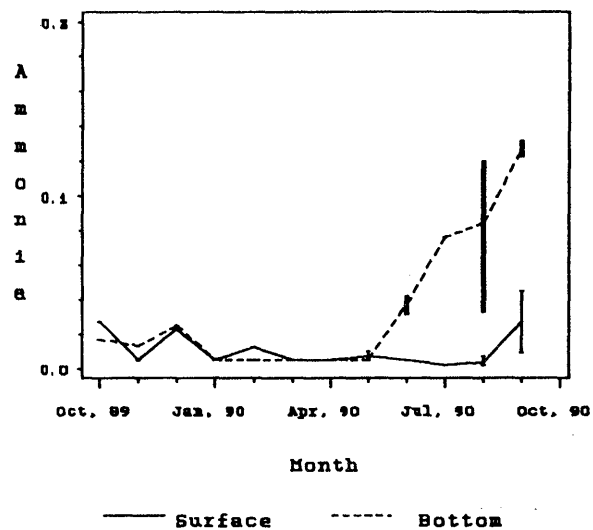
Station Id=CB5.4V



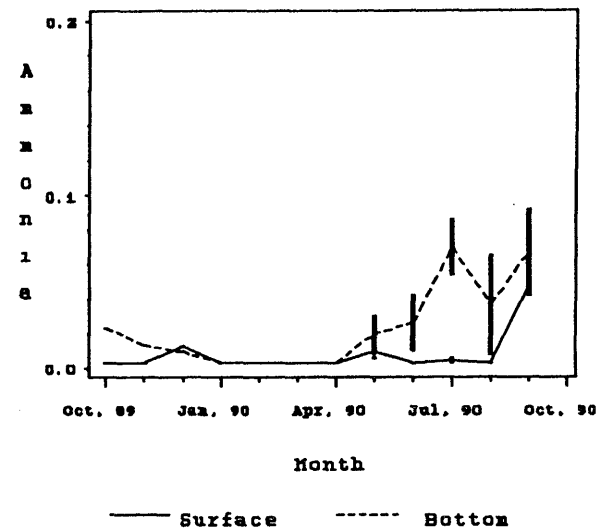
Station Id=CB7.2



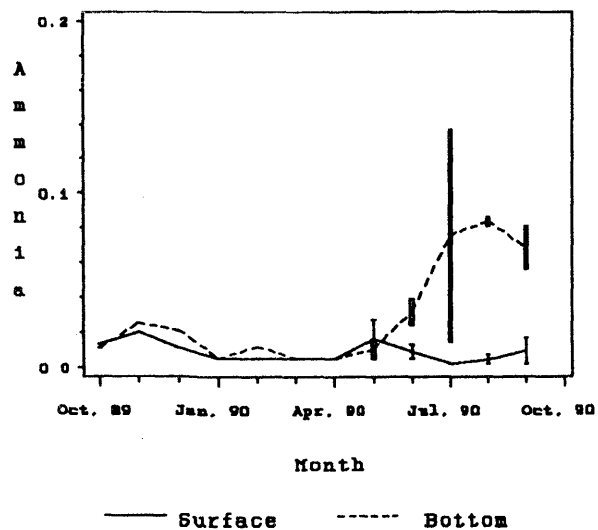
Station Id=CB7.2E



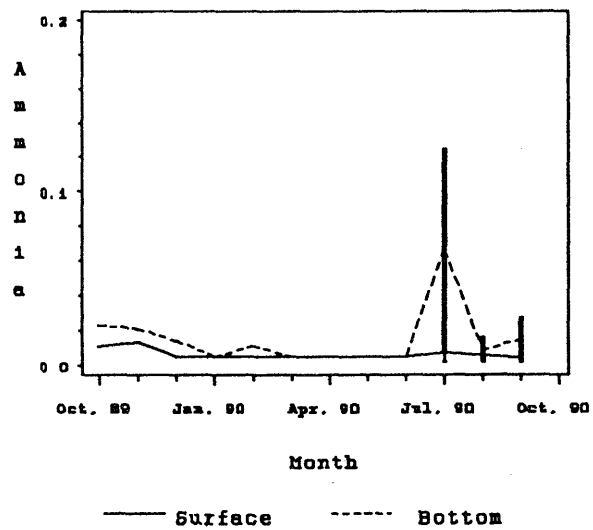
Station Id=CB7.3E



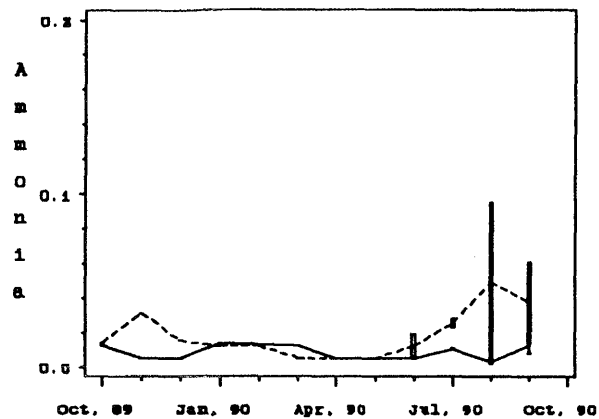
Station Id=LE3.6



Station Id=LE3.7



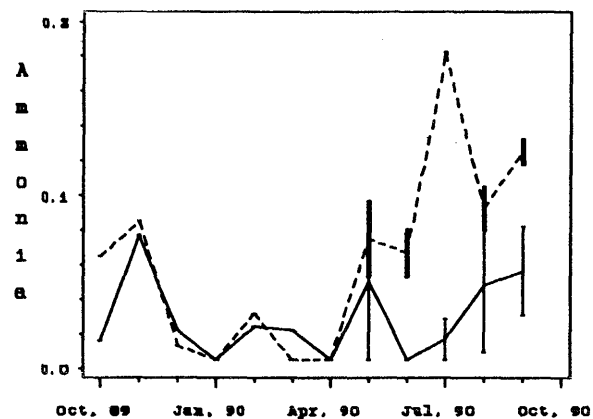
Station Id=WE4.1



Month

— Surface - - - - Bottom

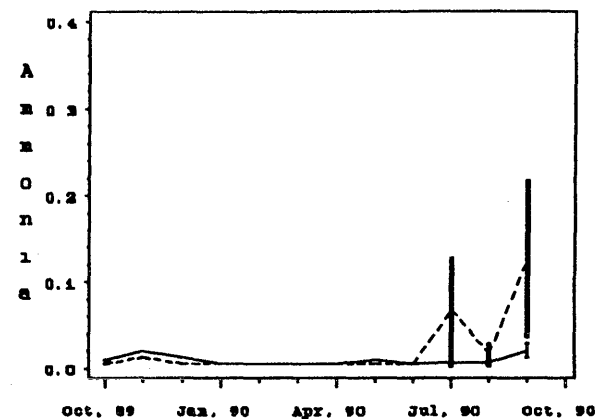
Station Id=WE4.2



Month

— Surface - - - - Bottom

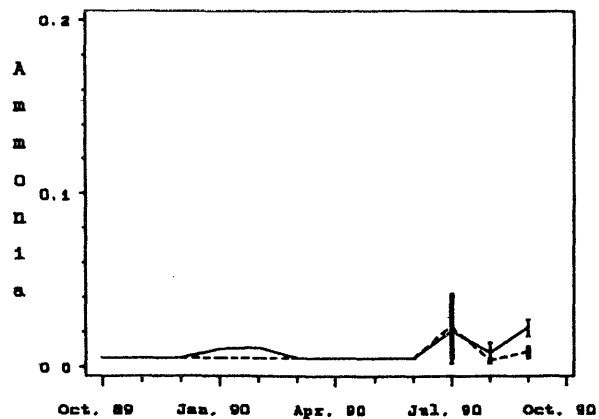
Station Id=WE4.3



Month

— Surface - - - - Bottom

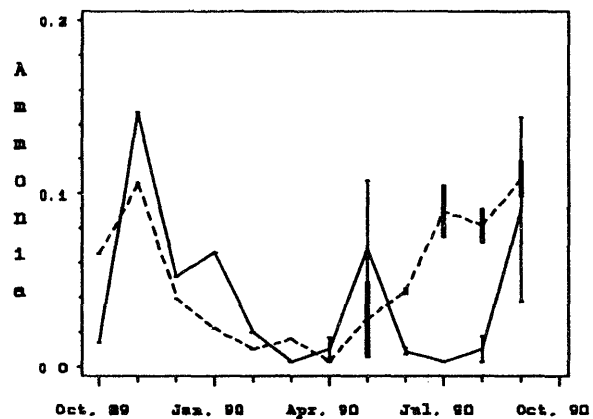
Station Id=WE4.4



Month

— Surface - - - - Bottom

Station Id=LE5.5



Month

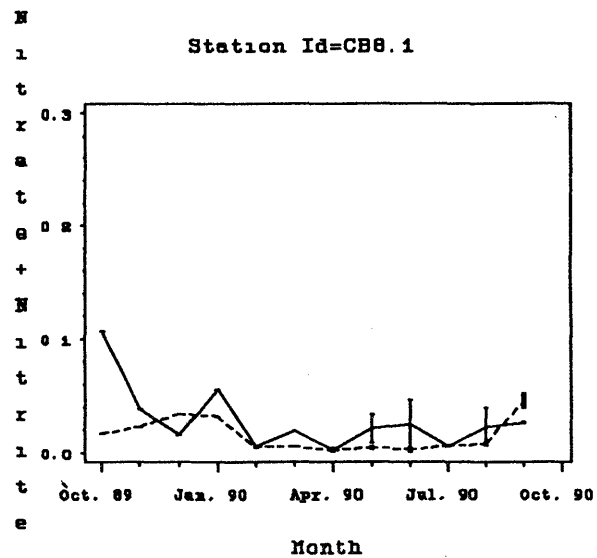
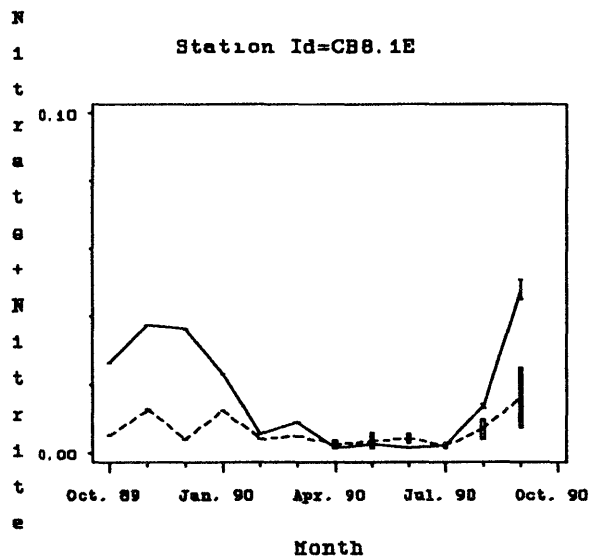
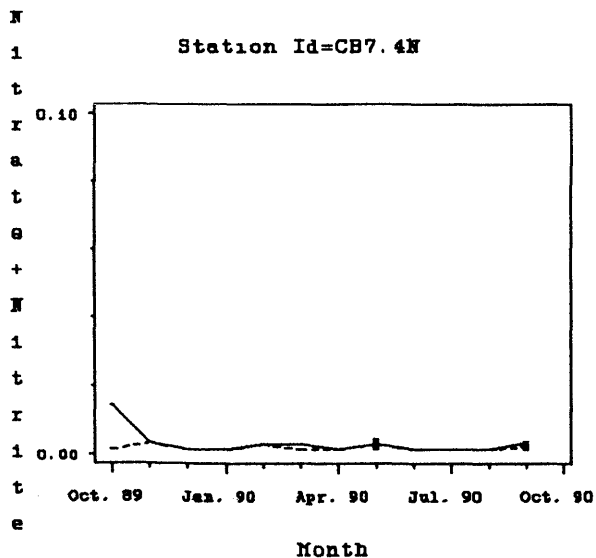
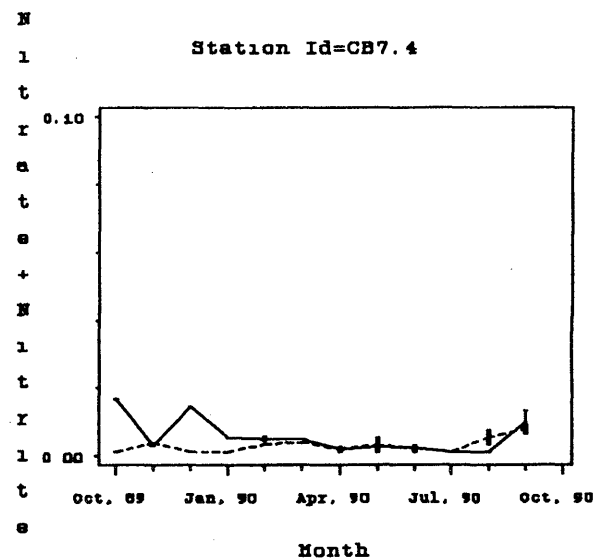
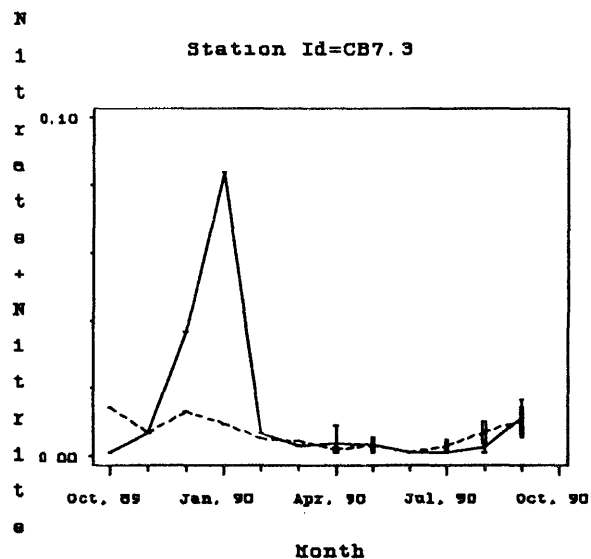
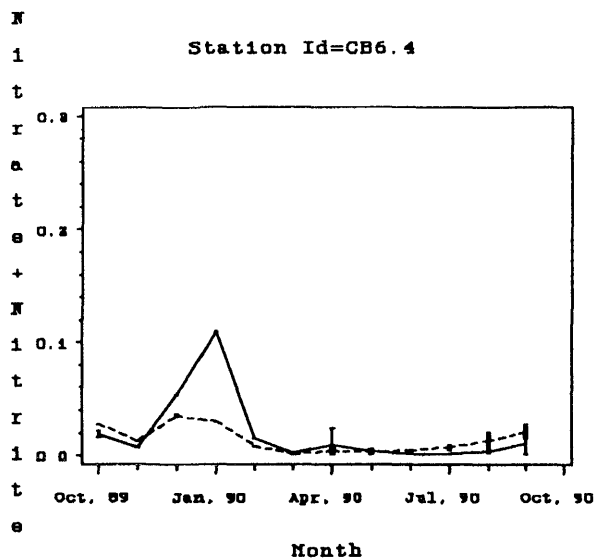
— Surface - - - - Bottom

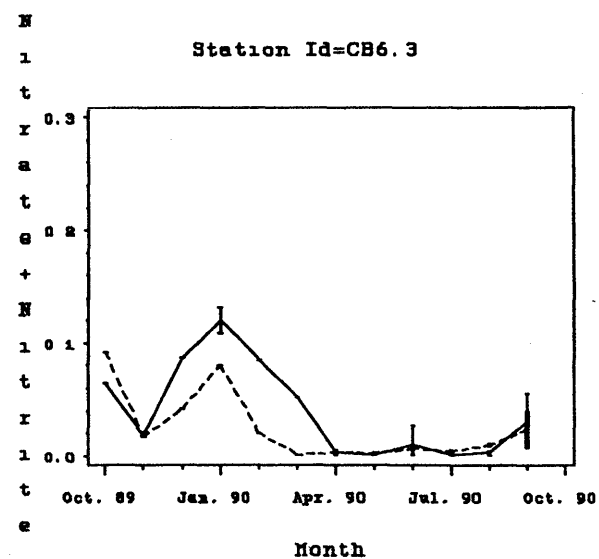
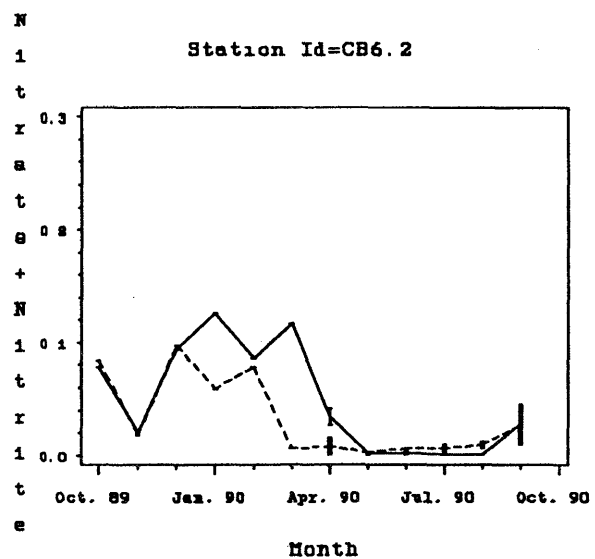
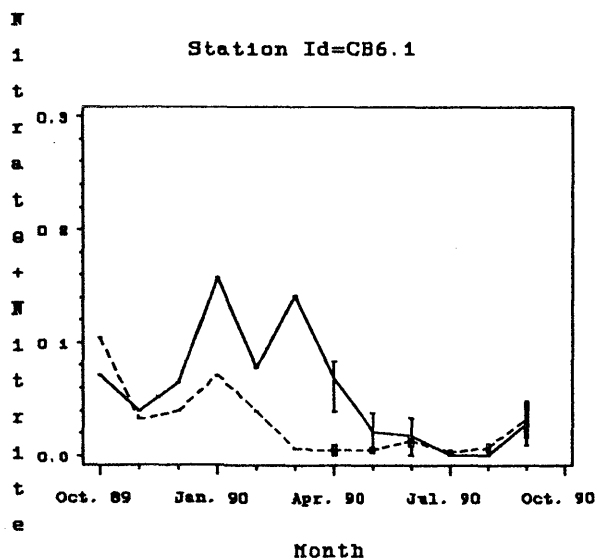
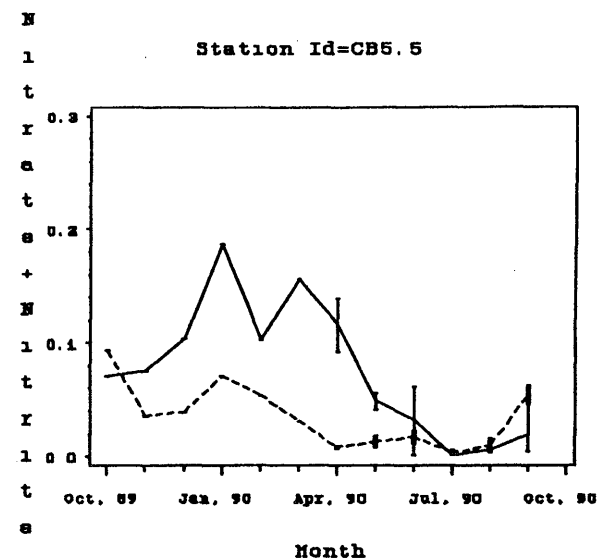
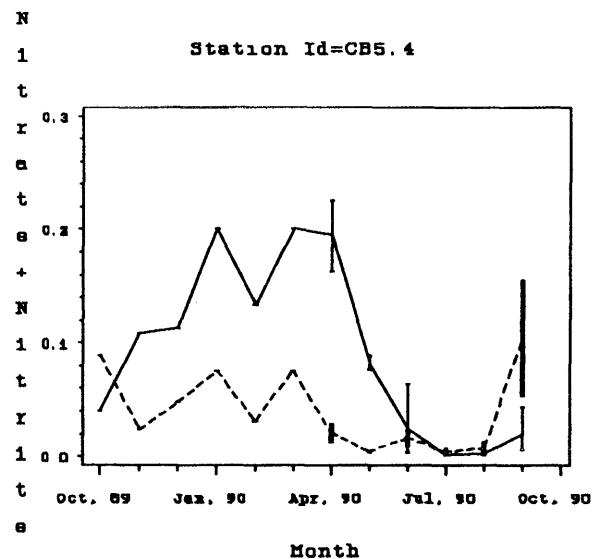
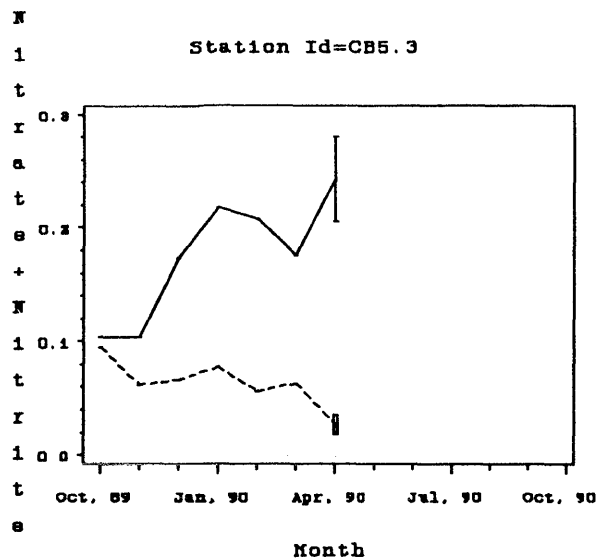
NITRATE + NITRITE

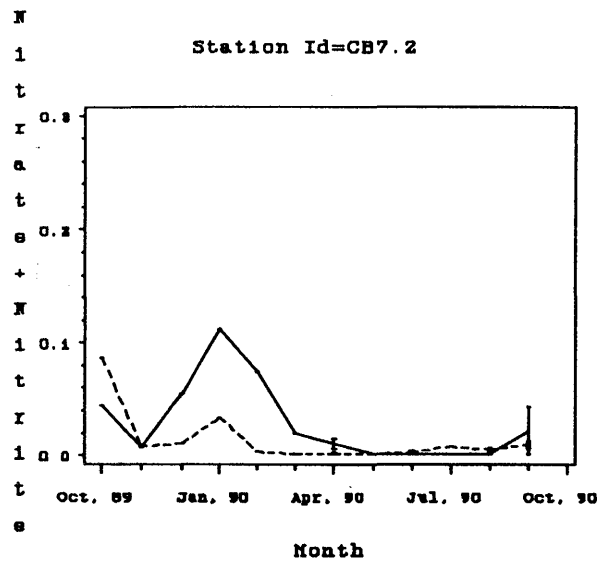
Values reported as mg/l.

Nitrate+Nitrite
October, 1989 - September, 1990

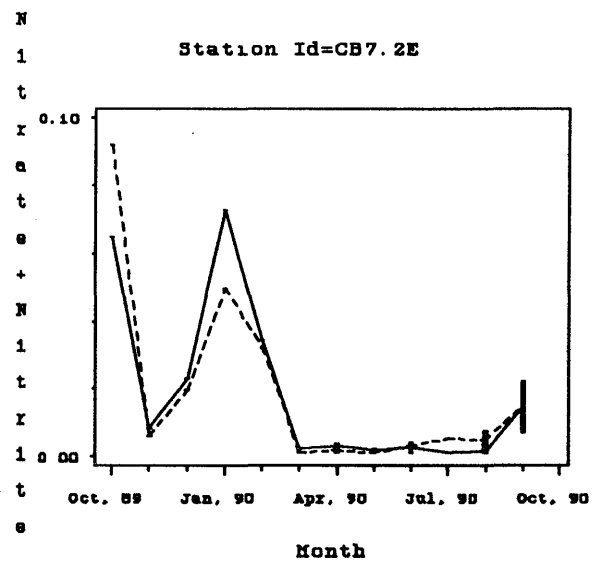
Station	Nitrate+Nitrite (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.2805	0.1833	0.1036	0.0950	0.0591	0.0185
CB5.4.....	0.2259	0.0742	0.0012	0.1556	0.0365	0.0012
CB5.5.....	0.1873	0.0610	0.0010	0.0932	0.0299	0.0012
CB6.1.....	0.1575	0.0451	0.0010	0.1050	0.0233	0.0010
CB6.2.....	0.1266	0.0348	0.0010	0.0976	0.0258	0.0010
CB6.3.....	0.1323	0.0312	0.0010	0.0920	0.0194	0.0010
CB6.4.....	0.1094	0.0138	0.0012	0.0362	0.0132	0.0012
CB7.3.....	0.0841	0.0096	0.0012	0.0146	0.0060	0.0012
CB7.4.....	0.0167	0.0049	0.0012	0.0092	0.0035	0.0012
CB7.4N.....	0.0143	0.0027	0.0012	0.0045	0.0017	0.0012
CB8.1E.....	0.0507	0.0153	0.0012	0.0251	0.0063	0.0012
CB8.1.....	0.1070	0.0248	0.0012	0.0521	0.0140	0.0012
EE3.1.....	0.1965	0.0266	0.0010	0.1919	0.0241	0.0010
EE3.2.....	0.1106	0.0203	0.0010	0.1438	0.0243	0.0010
CB7.1N.....	0.1699	0.0524	0.0012	0.0820	0.0293	0.0010
CB7.1.....	0.1562	0.0354	0.0010	0.1202	0.0231	0.0010
CB7.1S.....	0.1671	0.0392	0.0010	0.1085	0.0182	0.0010
CB5.4W.....	0.1965	0.0520	0.0012	0.1919	0.0557	0.0012
CB7.2.....	0.1117	0.0215	0.0010	0.0873	0.0110	0.0010
CB7.2E.....	0.0728	0.0143	0.0010	0.0920	0.0146	0.0010
CB7.3E.....	0.0895	0.0108	0.0012	0.0192	0.0058	0.0012
LE3.6.....	0.1610	0.0331	0.0010	0.1564	0.0365	0.0010
LE3.7.....	0.0797	0.0095	0.0010	0.1049	0.0143	0.0010
WE4.1.....	0.0510	0.0062	0.0010	0.0638	0.0107	0.0010
WE4.2.....	0.1603	0.0297	0.0010	0.1073	0.0235	0.0010
WE4.3.....	0.0591	0.0075	0.0010	0.0384	0.0077	0.0010
WE4.4.....	0.0167	0.0027	0.0010	0.0247	0.0029	0.0010
LE5.5.....	0.2467	0.0728	0.0012	0.1368	0.0289	0.0012



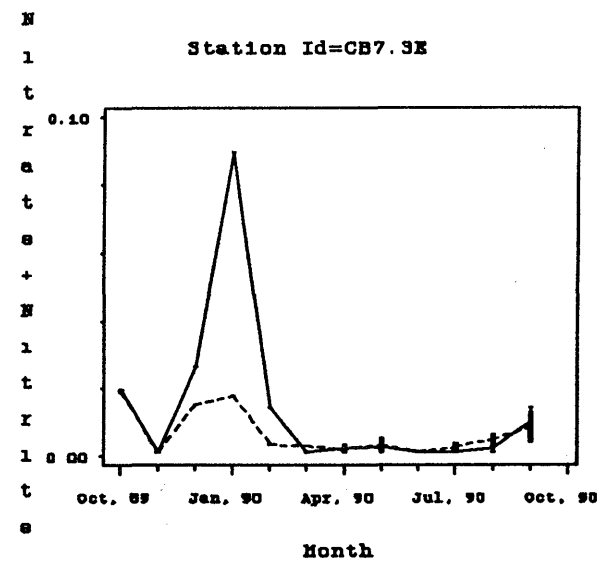




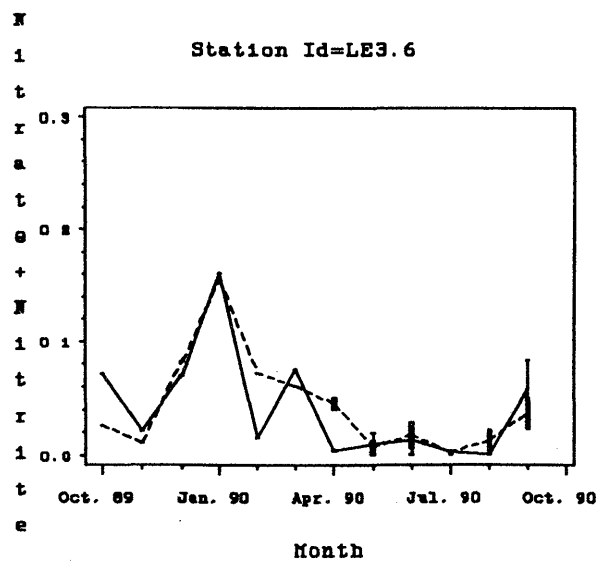
— Surface - - - - Bottom



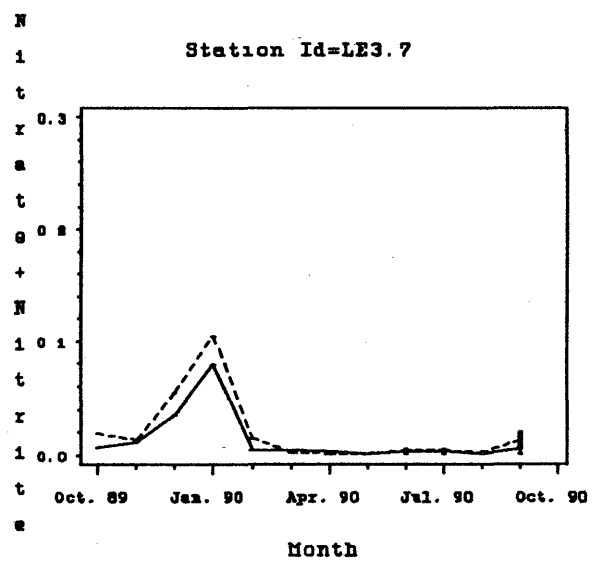
— Surface - - - - Bottom



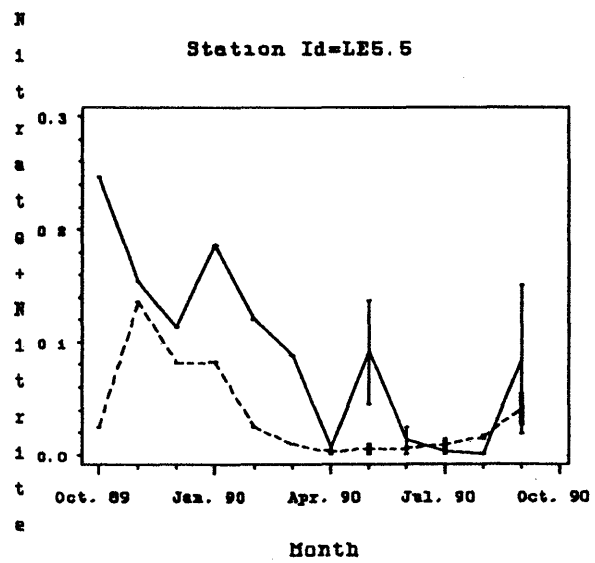
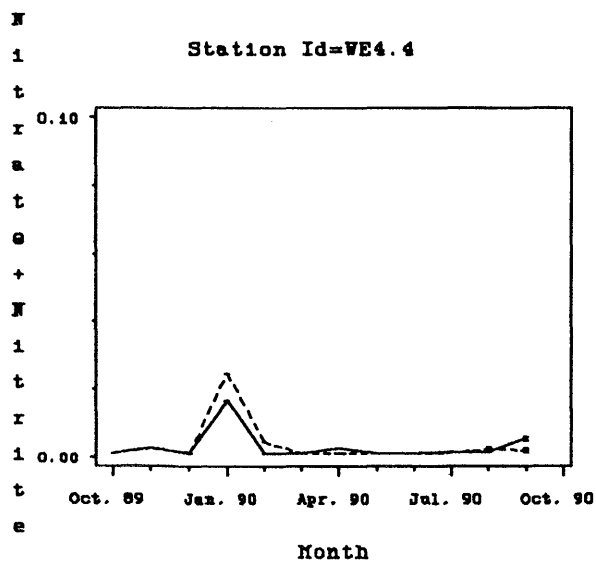
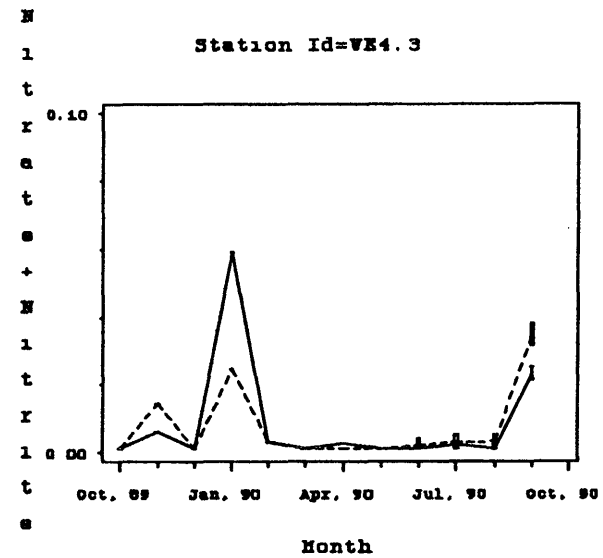
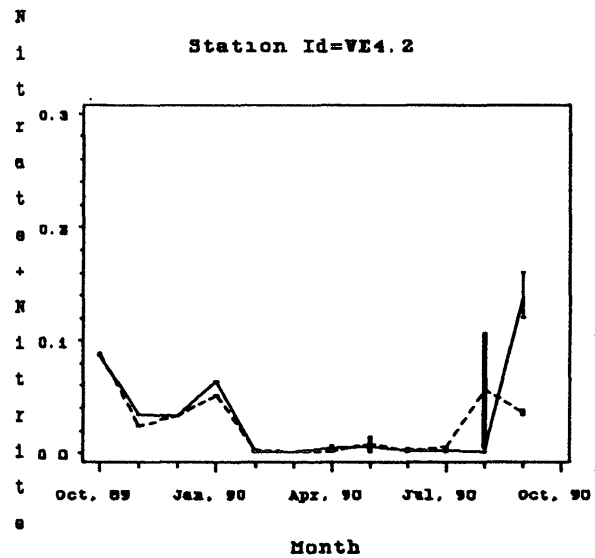
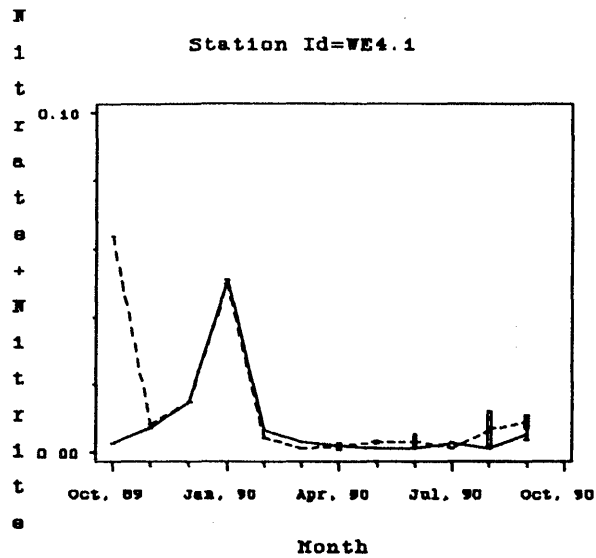
— Surface - - - - Bottom



— Surface - - - - Bottom



— Surface - - - - Bottom



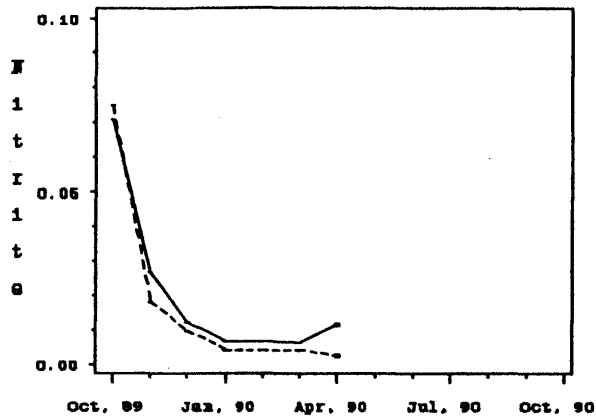
NITRITE

Values reported as mg/l.

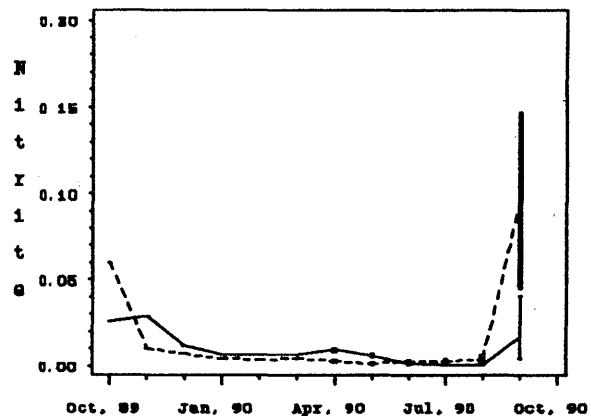
Nitrite
October, 1989 - September, 1990

Station	Nitrite (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.0710	0.0189	0.0060	0.0749	0.0149	0.0021
CB5.4.....	0.0409	0.0086	0.0003	0.1473	0.0171	0.0006
CB5.5.....	0.0496	0.0098	0.0003	0.0630	0.0124	0.0006
CB6.1.....	0.0496	0.0081	0.0003	0.0682	0.0097	0.0003
CB6.2.....	0.0525	0.0078	0.0003	0.0560	0.0085	0.0003
CB6.3.....	0.0432	0.0073	0.0003	0.0618	0.0076	0.0003
CB6.4.....	0.0228	0.0026	0.0005	0.0205	0.0037	0.0005
CB7.3.....	0.0121	0.0020	0.0005	0.0079	0.0015	0.0005
CB7.4.....	0.0148	0.0019	0.0005	0.0055	0.0013	0.0005
CB7.4N.....	0.0148	0.0015	0.0005	0.0022	0.0006	0.0005
CB8.1E.....	0.0275	0.0053	0.0005	0.0140	0.0018	0.0005
CB8.1.....	0.0334	0.0068	0.0005	0.0289	0.0047	0.0005
EE3.1.....	0.0323	0.0039	0.0003	0.0313	0.0036	0.0003
EE3.2.....	0.0407	0.0060	0.0003	0.0363	0.0061	0.0007
CB7.1N.....	0.0430	0.0084	0.0003	0.0506	0.0091	0.0003
CB7.1.....	0.0393	0.0074	0.0003	0.0772	0.0100	0.0007
CB7.1S.....	0.0486	0.0084	0.0003	0.0716	0.0077	0.0006
CB5.4W.....	0.0349	0.0059	0.0003	0.0312	0.0076	0.0003
CB7.2.....	0.0349	0.0057	0.0003	0.0533	0.0051	0.0007
CB7.2E.....	0.0415	0.0048	0.0003	0.0577	0.0059	0.0007
CB7.3E.....	0.0098	0.0018	0.0005	0.0084	0.0014	0.0005
LE3.6.....	0.0712	0.0105	0.0003	0.0416	0.0082	0.0007
LE3.7.....	0.0080	0.0020	0.0003	0.0152	0.0034	0.0003
WE4.1.....	0.0033	0.0014	0.0003	0.0439	0.0044	0.0003
WE4.2.....	0.1550	0.0176	0.0003	0.0923	0.0133	0.0007
WE4.3.....	0.0212	0.0030	0.0003	0.0296	0.0042	0.0003
WE4.4.....	0.0032	0.0009	0.0003	0.0024	0.0008	0.0003
LE5.5.....	0.0646	0.0088	0.0005	0.0309	0.0056	0.0005

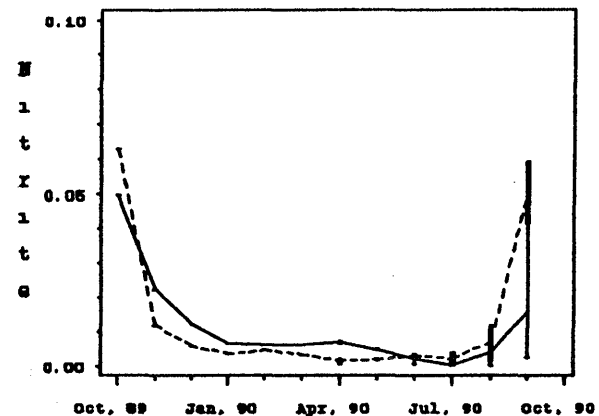
Station Id=CB5.3



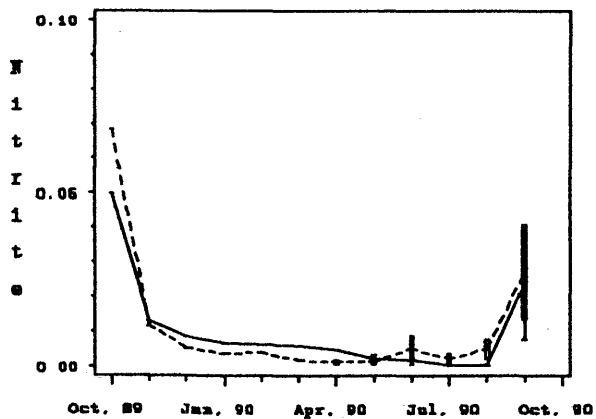
Station Id=CB5.4



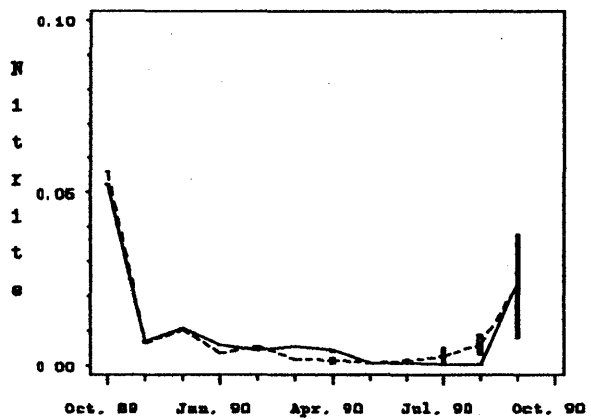
Station Id=CB5.5



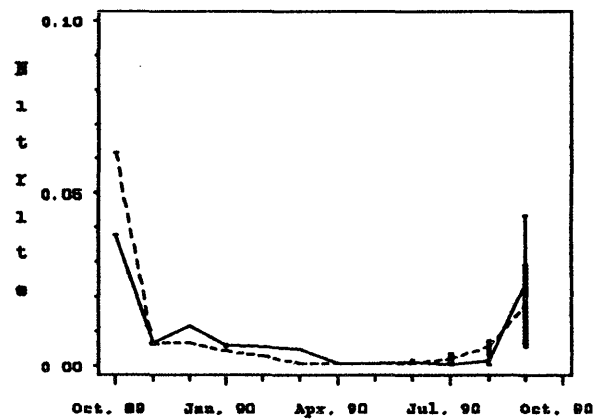
Station Id=CB6.1



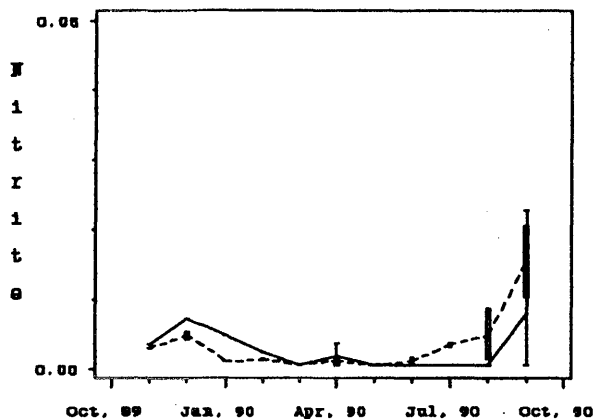
Station Id=CB6.2



Station Id=CB6.3



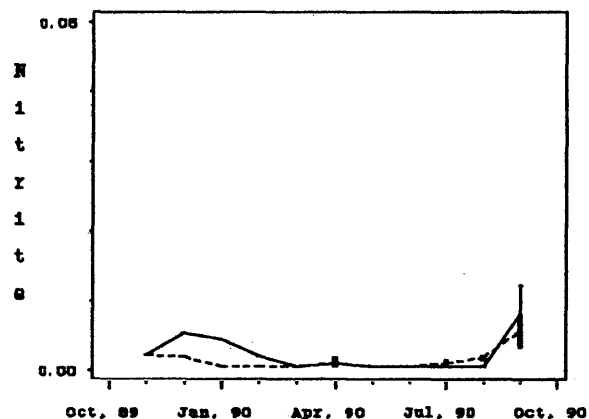
Station Id=CB6.4



Month

— Surface - - - - Bottom

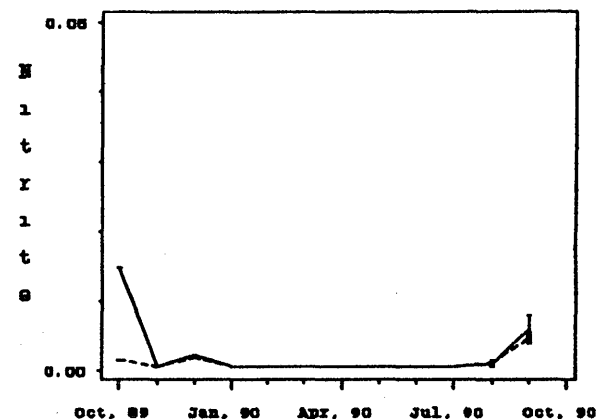
Station Id=CB7.3



Month

— Surface - - - - Bottom

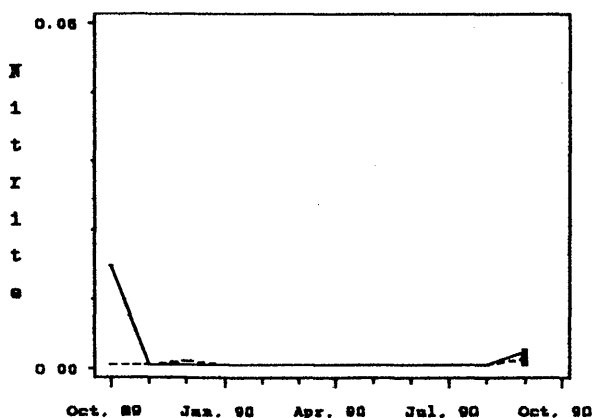
Station Id=CB7.4



Month

— Surface - - - - Bottom

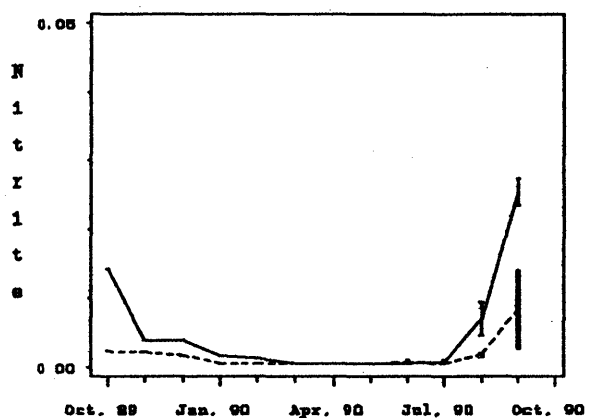
Station Id=CB7.4N



Month

— Surface - - - - Bottom

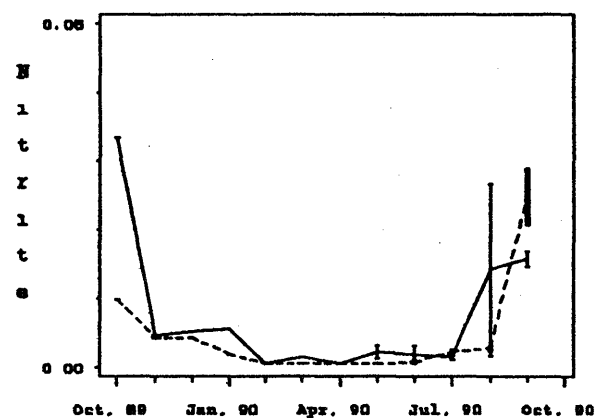
Station Id=CB8.1E



Month

— Surface - - - - Bottom

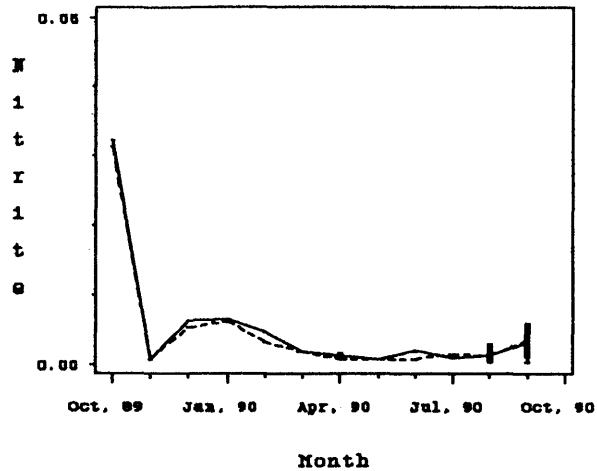
Station Id=CB8.1



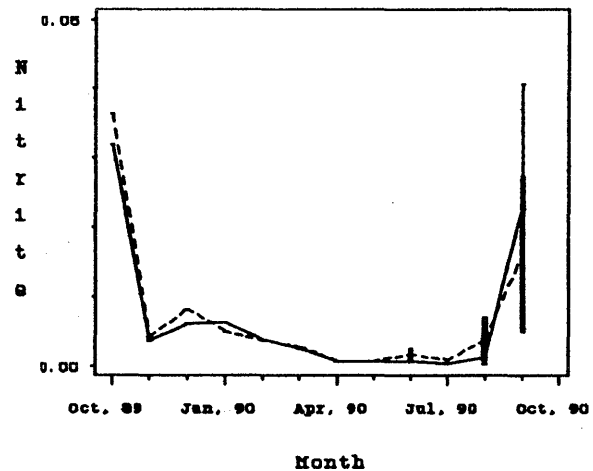
Month

— Surface - - - - Bottom

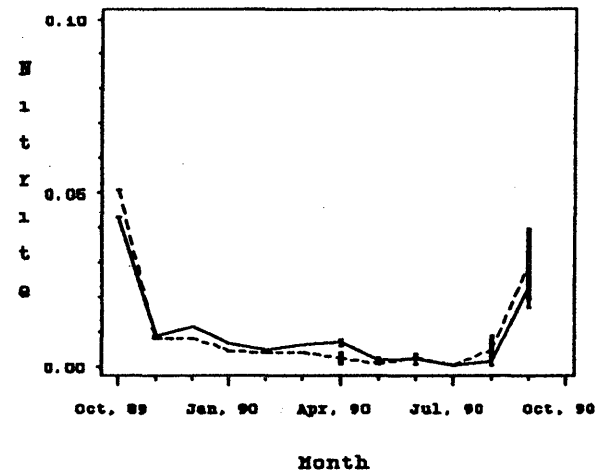
Station Id=EE3.1



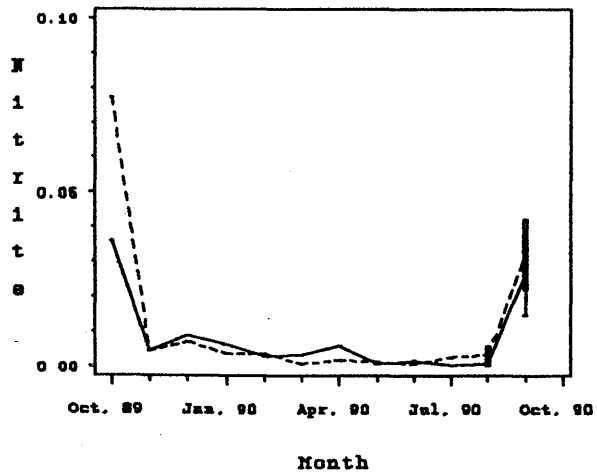
Station Id=EE3.2



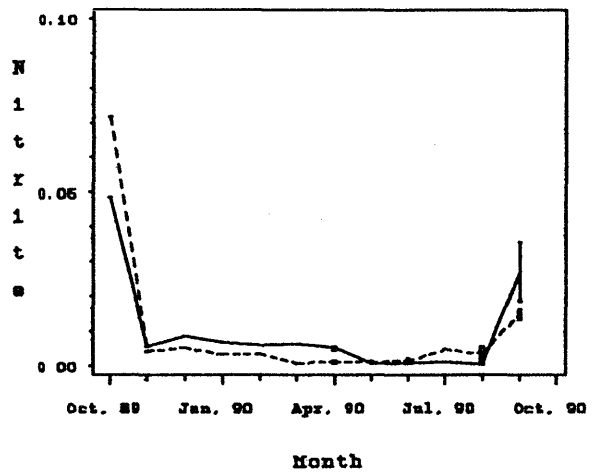
Station Id=CB7.1N



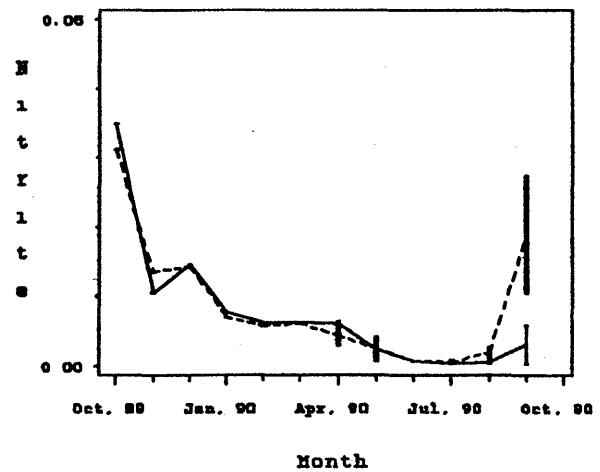
Station Id=CB7.1



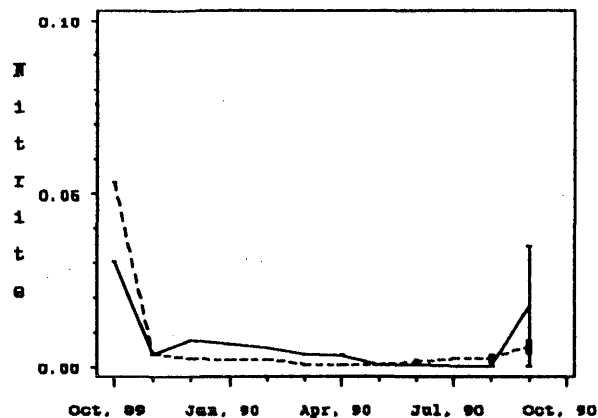
Station Id=CB7.1S



Station Id=CB5.4V



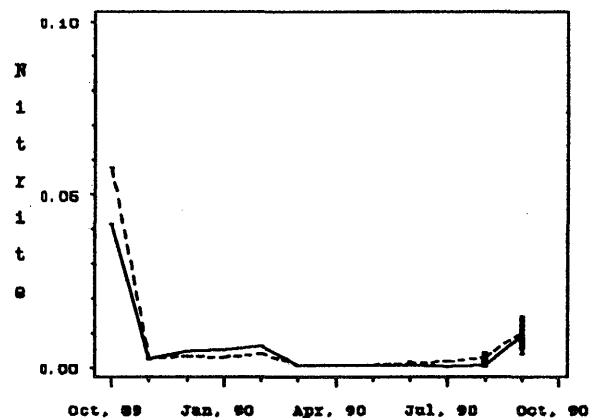
Station Id=CB7.2



Month

— Surface - - - - Bottom

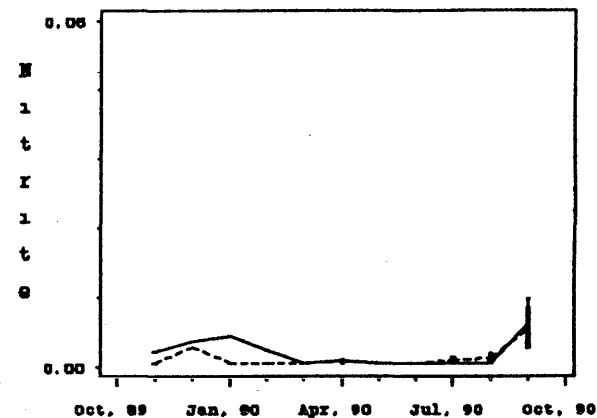
Station Id=CB7.2E



Month

— Surface - - - - Bottom

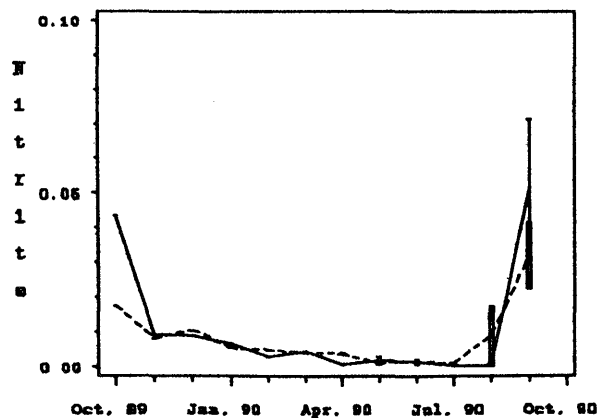
Station Id=CB7.3E



Month

— Surface - - - - Bottom

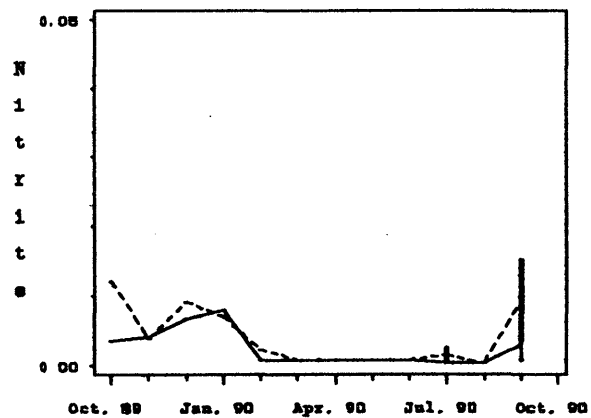
Station Id=LE3.6



Month

— Surface - - - - Bottom

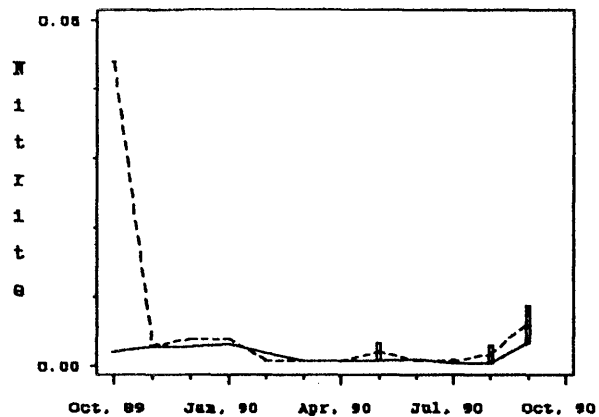
Station Id=LE3.7



Month

— Surface - - - - Bottom

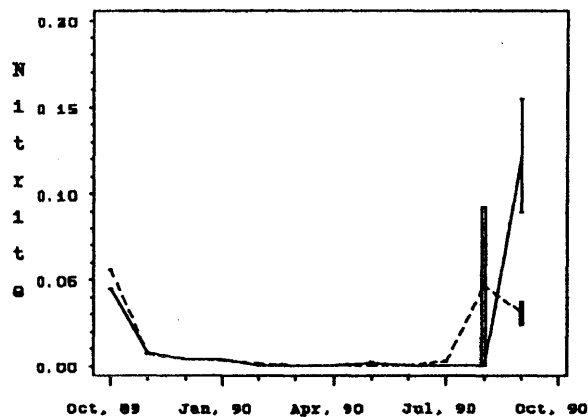
Station Id=WE4.1



Month

— Surface - - - - Bottom

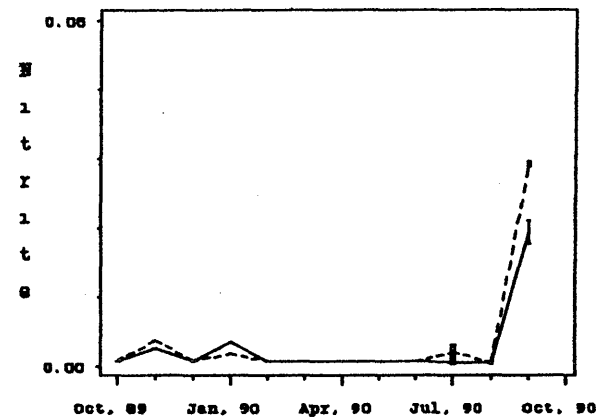
Station Id=VE4.2



Month

— Surface - - - - Bottom

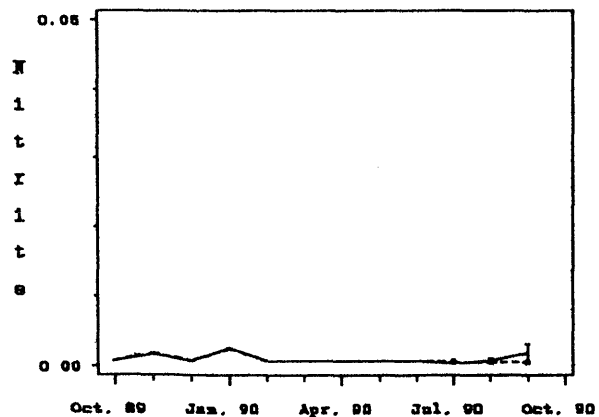
Station Id=VE4.3



Month

— Surface - - - - Bottom

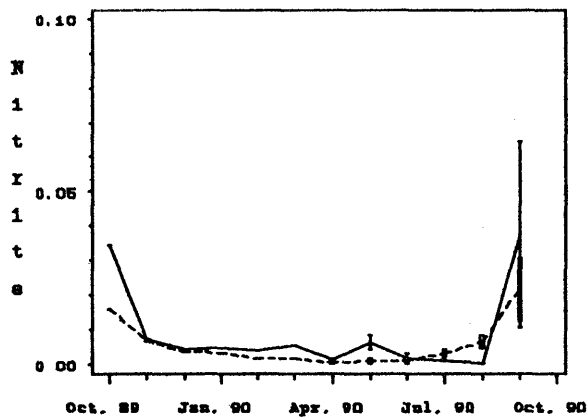
Station Id=WE4.4



Month

— Surface - - - - Bottom

Station Id=LE5.5



Month

— Surface - - - - Bottom

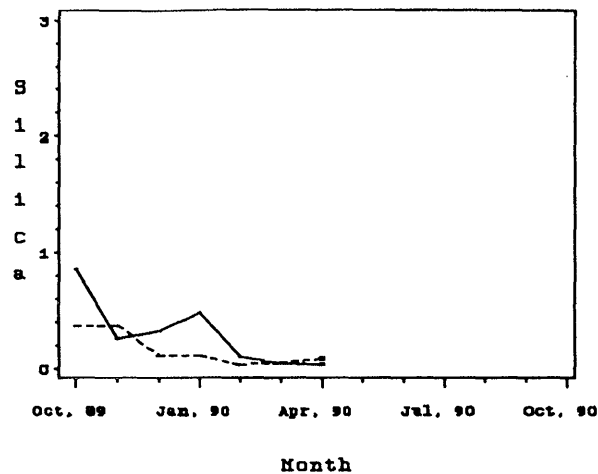
DISSOLVED SILICA

Values reported as mg/l.

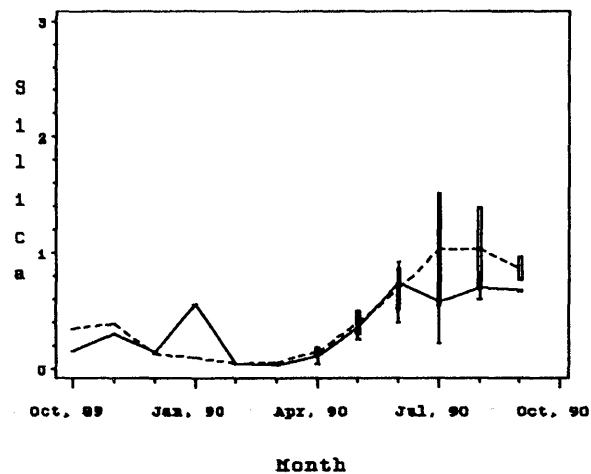
Silica
October, 1989 - September, 1990

Station	Silica (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	0.8510	0.2617	0.0310	0.3690	0.1494	0.0310
CB5.4.....	0.9250	0.4465	0.0330	1.5120	0.5202	0.0410
CB5.5.....	0.9380	0.4316	0.0380	2.2000	0.5991	0.0450
CB6.1.....	0.9230	0.3691	0.0310	1.3890	0.5428	0.0450
CB6.2.....	0.7870	0.3794	0.0210	1.1170	0.4425	0.0430
CB6.3.....	0.7730	0.3544	0.0230	1.0960	0.4396	0.0590
CB6.4.....	0.7480	0.2815	0.0240	1.0170	0.4204	0.0320
CB7.3.....	0.6010	0.2443	0.0240	0.4410	0.1974	0.0260
CB7.4.....	0.3960	0.1617	0.0115	0.3200	0.1388	0.0115
CB7.4N.....	0.3620	0.1279	0.0115	0.4910	0.1193	0.0115
CB8.1E.....	0.9620	0.3365	0.0400	1.2410	0.2723	0.0410
CB8.1.....	2.4090	0.4623	0.0340	0.7120	0.3109	0.0410
EE3.1.....	1.4040	0.4071	0.0470	1.3260	0.4345	0.0710
EE3.2.....	0.8650	0.3244	0.0270	0.8070	0.3468	0.0630
CB7.1N.....	0.6950	0.3213	0.0450	1.5410	0.4168	0.0340
CB7.1.....	0.7950	0.3094	0.0290	1.3280	0.4453	0.0610
CB7.1S.....	0.8440	0.3169	0.0390	1.1420	0.3957	0.0370
CB5.4W.....	0.9720	0.3975	0.0310	0.9570	0.4192	0.0140
CB7.2.....	0.7220	0.3034	0.0490	0.6060	0.3128	0.0450
CB7.2E.....	0.6420	0.2636	0.0370	0.9420	0.3392	0.0390
CB7.3E.....	0.5430	0.2035	0.0260	0.4760	0.2082	0.0240
LE3.6.....	1.2650	0.4467	0.0310	1.0950	0.4443	0.0240
LE3.7.....	1.0950	0.4081	0.0240	1.0810	0.4189	0.0330
WE4.1.....	1.1550	0.3561	0.0440	1.0890	0.4077	0.0420
WE4.2.....	1.3370	0.6698	0.2220	1.2480	0.5897	0.0610
WE4.3.....	0.8030	0.3510	0.0950	1.1510	0.4333	0.0630
WE4.4.....	0.7020	0.2643	0.0590	0.7470	0.2281	0.0370
LE5.5.....	1.3820	0.7539	0.2120	0.9080	0.4153	0.0810

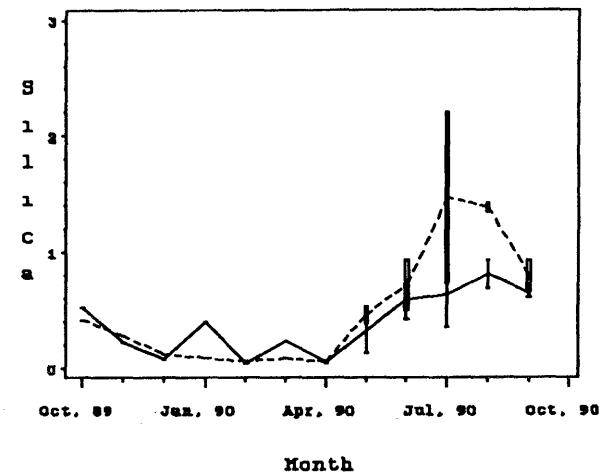
Station Id=CB5.3



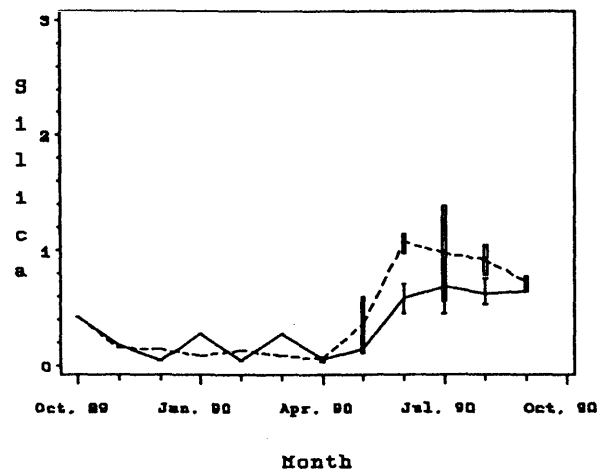
Station Id=CB5.4



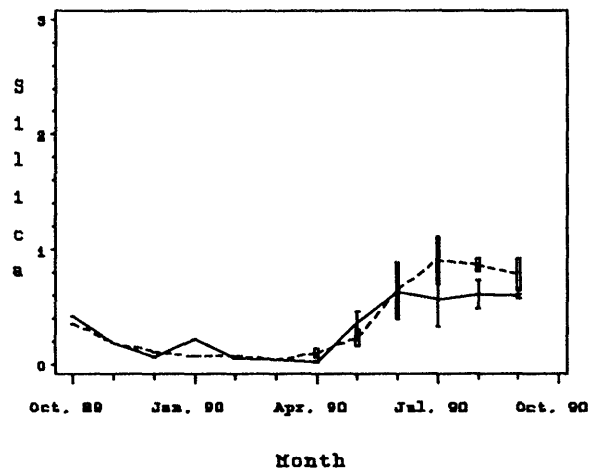
Station Id=CB5.5



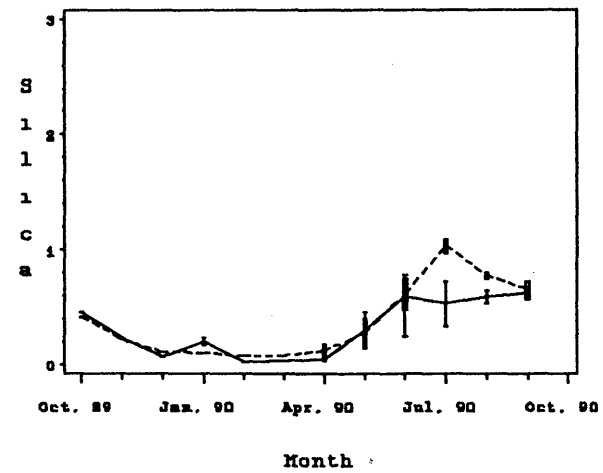
Station Id=CB6.1



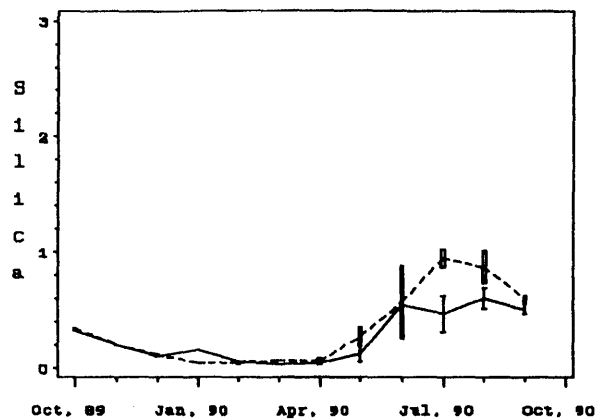
Station Id=CB6.2



Station Id=CB6.3



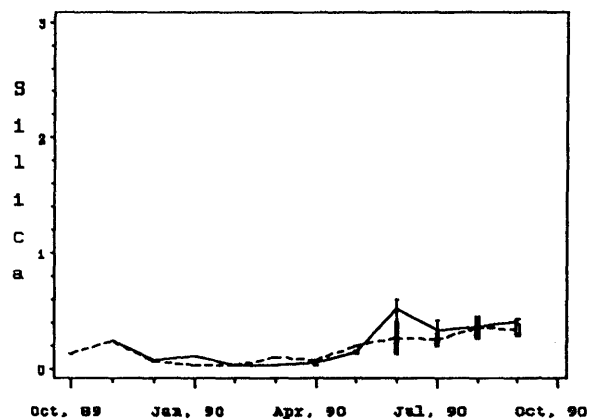
Station Id=CB6.4



Month

— Surface - - - - Bottom

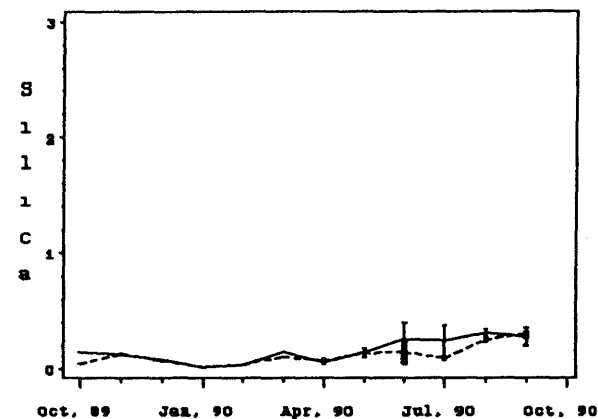
Station Id=CB7.3



Month

— Surface - - - - Bottom

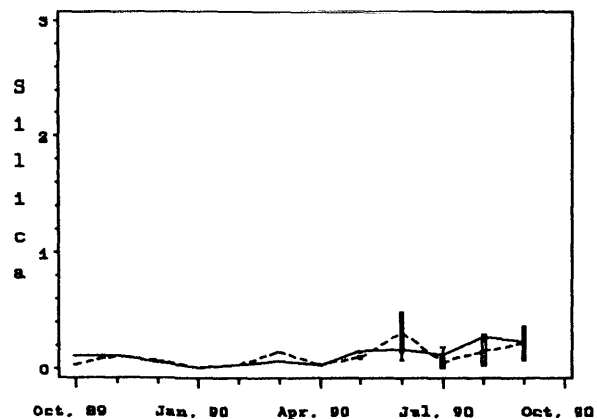
Station Id=CB7.4



Month

— Surface - - - - Bottom

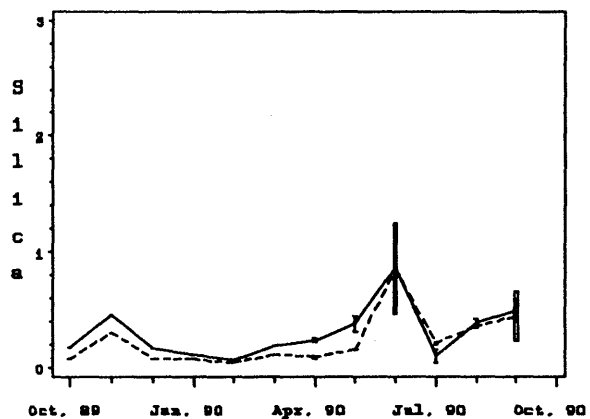
Station Id=CB7.4N



Month

— Surface - - - - Bottom

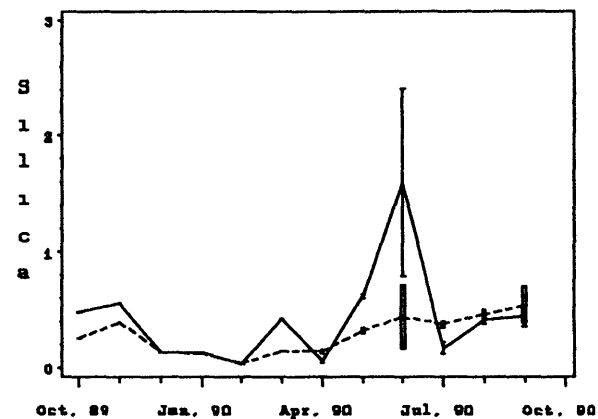
Station Id=CB6.1E



Month

— Surface - - - - Bottom

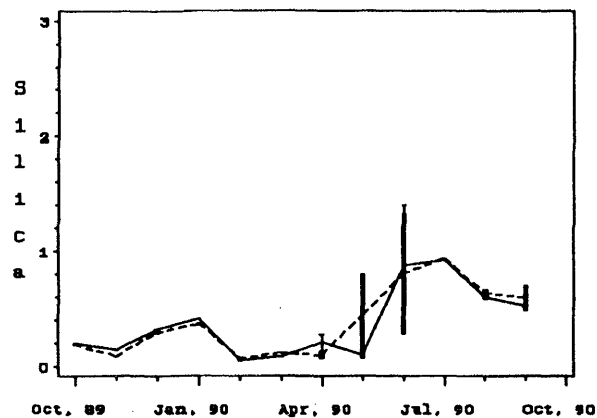
Station Id=CB6.1



Month

— Surface - - - - Bottom

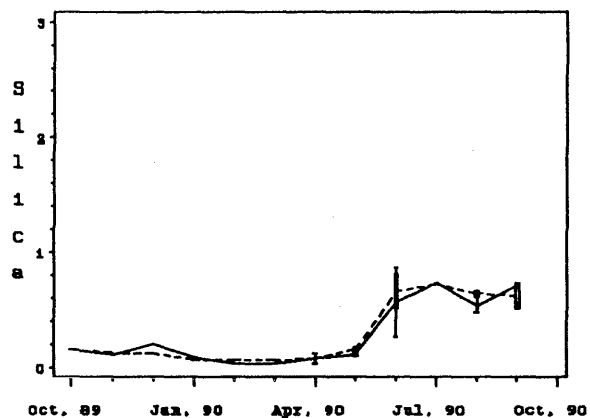
Station Id=EE3.1



Month

— Surface - - - Bottom

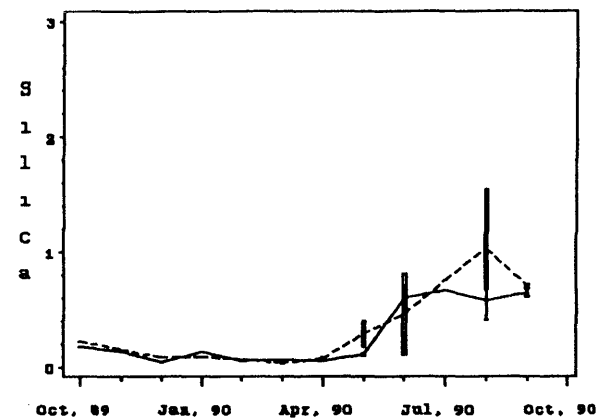
Station Id=EE3.2



Month

— Surface - - - Bottom

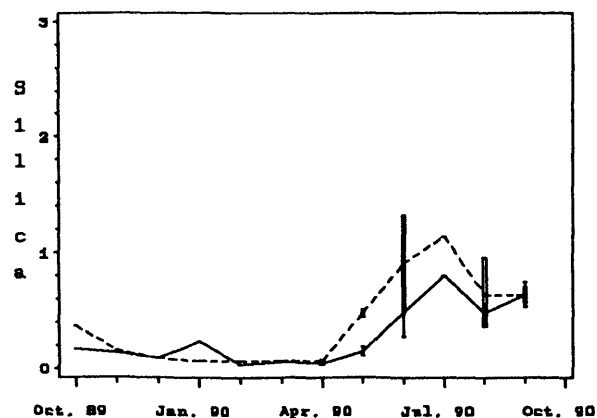
Station Id=CB7.1N



Month

— Surface - - - Bottom

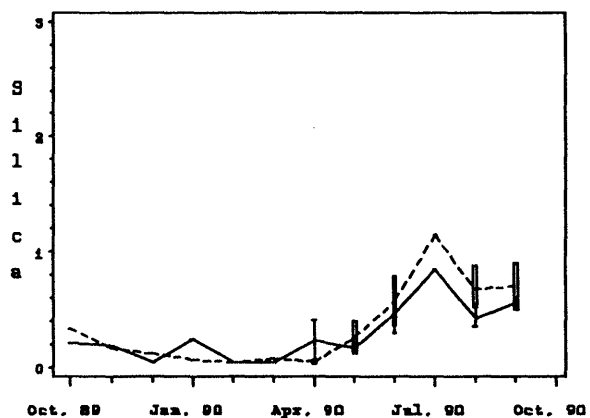
Station Id=CB7.1



Month

— Surface - - - Bottom

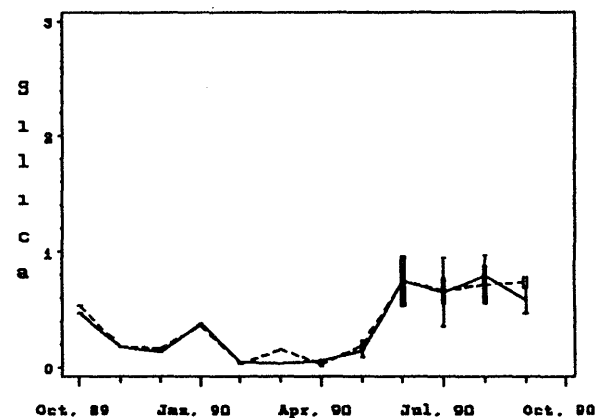
Station Id=CB7.1S



Month

— Surface - - - Bottom

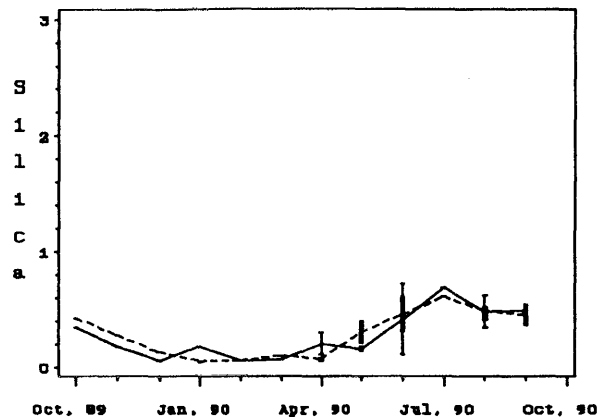
Station Id=CB5.4V



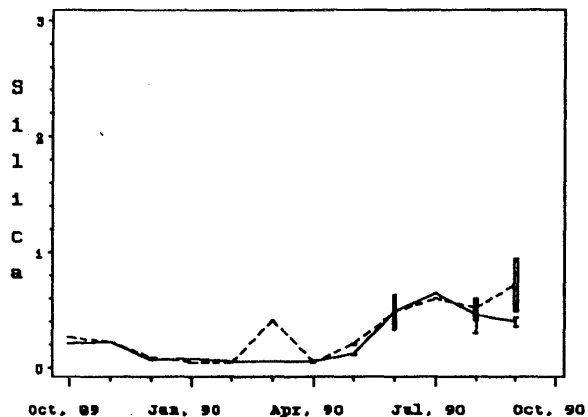
Month

— Surface - - - Bottom

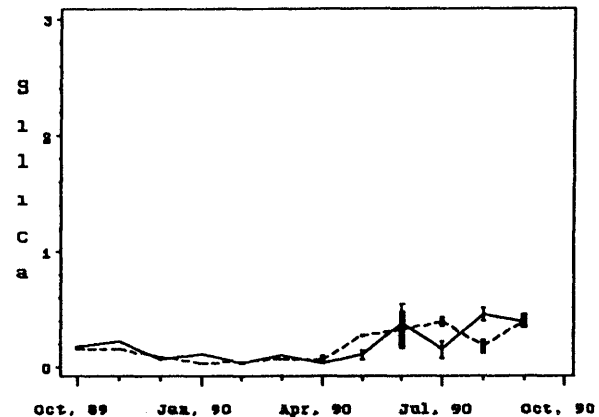
Station Id=CB7.2



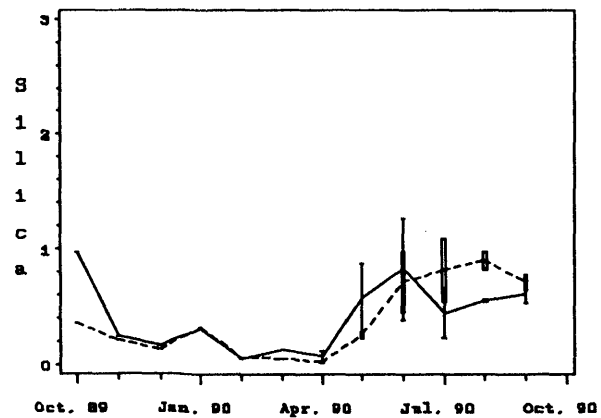
Station Id=CB7.2E



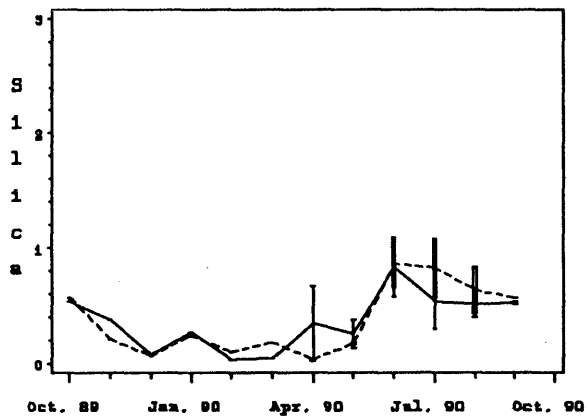
Station Id=CB7.3E



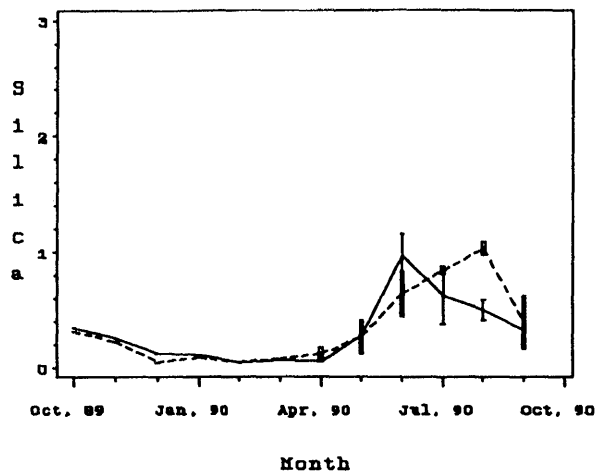
Station Id=LE3.6



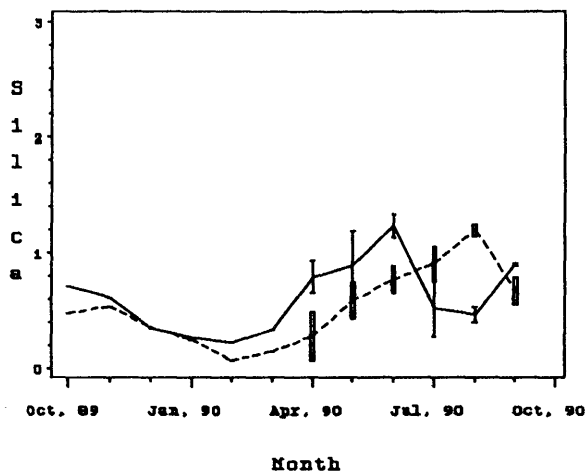
Station Id=LE3.7



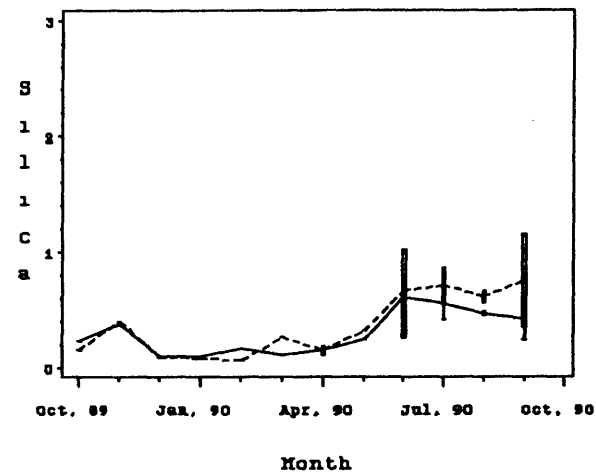
Station Id=WE4.1



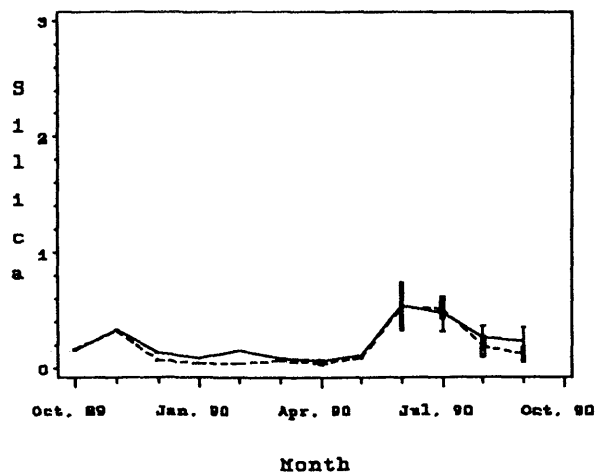
Station Id=WE4.2



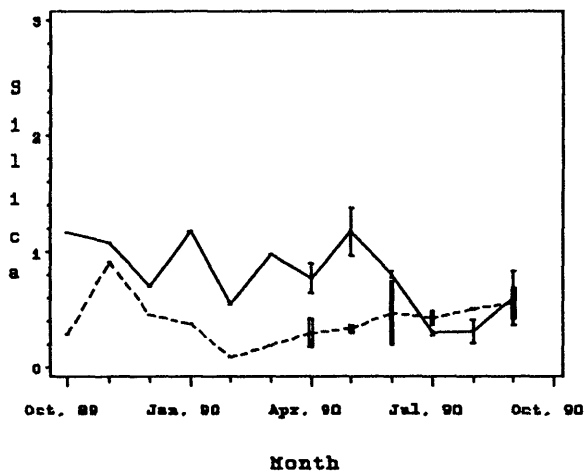
Station Id=WE4.3



Station Id=WE4.4



Station Id=LE5.5

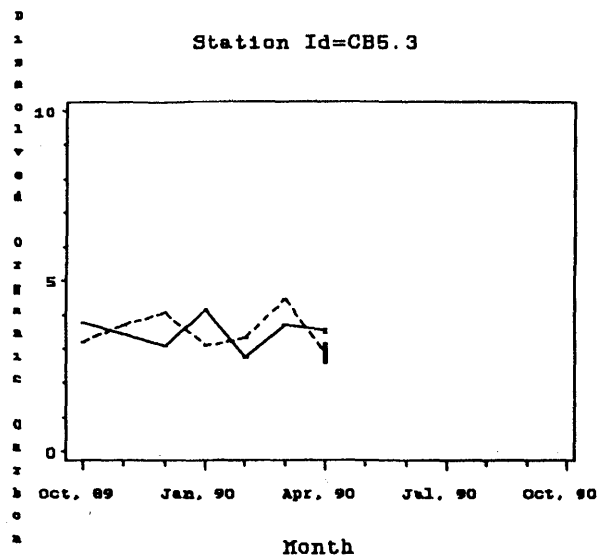


DISSOLVED ORGANIC CARBON

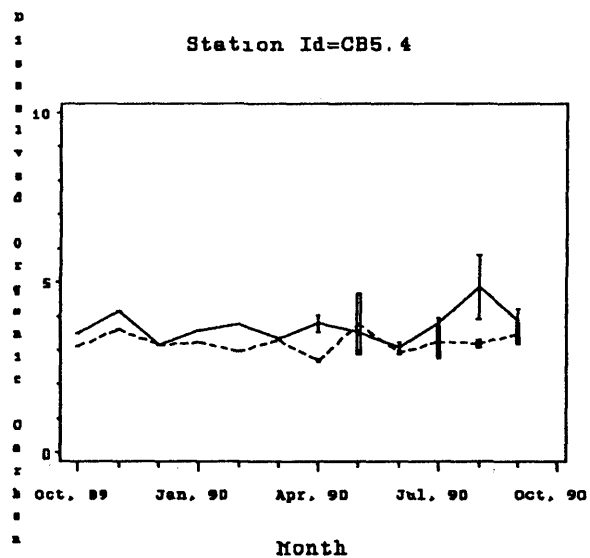
Values reported as mg/l.

Dissolved Organic Carbon
October, 1989 - September, 1990

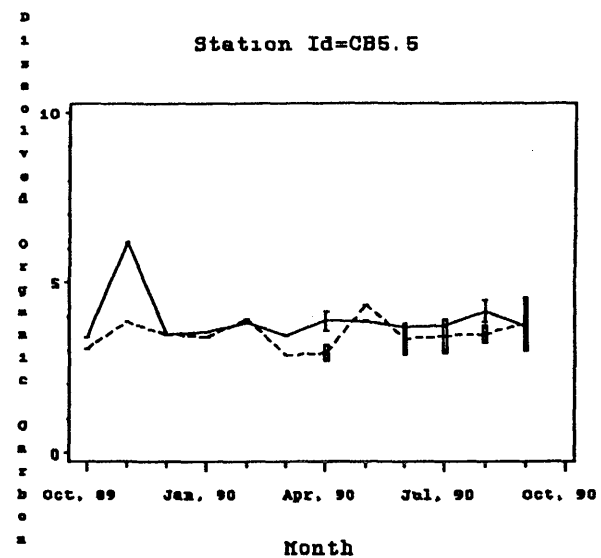
Station	Dissolved Organic Carbon (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	4.140	3.476	2.740	4.430	3.427	2.560
CB5.4.....	5.780	3.700	2.950	4.660	3.213	2.650
CB5.5.....	6.190	3.857	3.380	4.560	3.444	2.680
CB6.1.....	6.605	4.130	3.210	5.230	3.557	2.480
CB6.2.....	6.715	4.288	3.010	7.645	4.024	2.660
CB6.3.....	10.730	4.922	2.970	9.210	4.684	2.760
CB6.4.....	4.200	3.179	2.390	3.660	2.697	1.960
CB7.3.....	4.110	2.869	2.380	2.930	2.272	1.730
CB7.4.....	3.030	2.373	1.870	2.460	1.889	1.330
CB7.4N.....	2.970	2.231	1.500	2.700	2.044	1.620
CB8.1E.....	6.580	2.918	1.900	3.130	2.111	1.650
CB8.1.....	13.850	3.626	2.590	7.140	2.969	1.920
EE3.1.....	6.460	4.824	3.870	6.370	5.046	3.800
EE3.2.....	5.990	4.354	3.590	5.120	3.879	2.940
CB7.1N.....	4.820	4.037	3.240	6.840	3.972	3.070
CB7.1.....	4.570	3.780	3.230	6.650	3.639	2.350
CB7.1S.....	5.800	3.722	2.810	4.115	3.200	2.610
CB5.4W.....	6.290	4.067	3.240	5.735	3.904	3.280
CB7.2.....	4.770	3.674	2.900	5.520	3.204	2.270
CB7.2E.....	4.505	3.495	2.770	4.790	3.243	2.550
CB7.3E.....	3.200	2.724	2.450	4.020	2.487	1.800
LE3.6.....	7.010	4.186	2.910	6.890	3.968	3.120
LE3.7.....	5.830	4.219	3.400	5.935	4.264	3.220
WE4.1.....	10.540	4.657	2.720	16.500	4.914	3.070
WE4.2.....	13.020	5.067	3.020	9.200	4.910	3.270
WE4.3.....	6.010	3.996	2.810	6.550	3.903	3.130
WE4.4.....	6.735	4.127	3.180	5.850	3.952	3.080
LE5.5.....	3.800	3.171	2.560	3.550	2.702	2.140



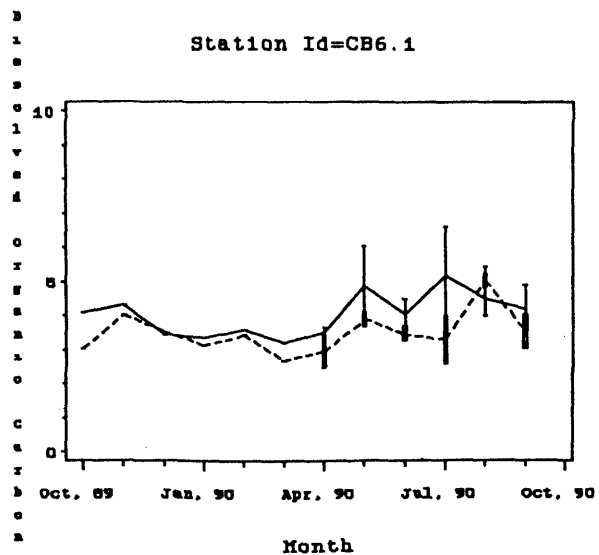
— Surface - - - - Bottom



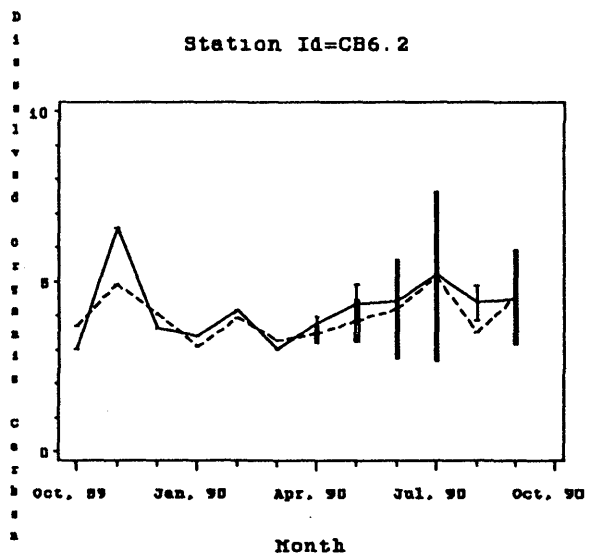
— Surface - - - - Bottom



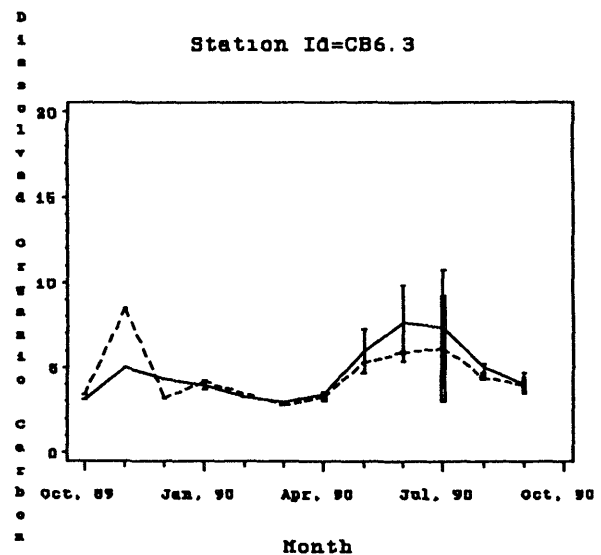
— Surface - - - - Bottom



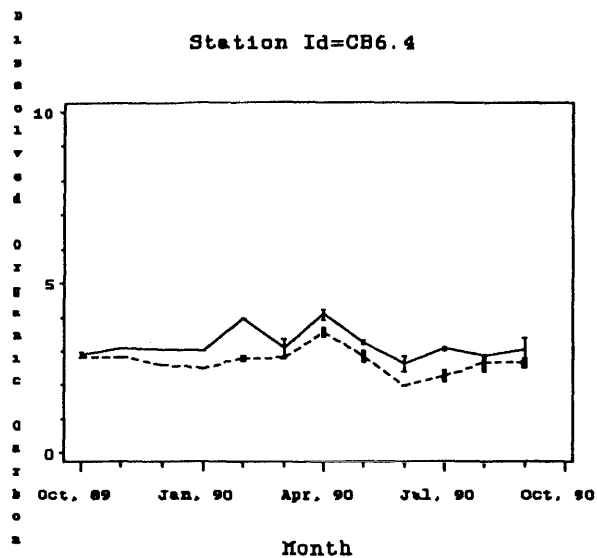
— Surface - - - - Bottom



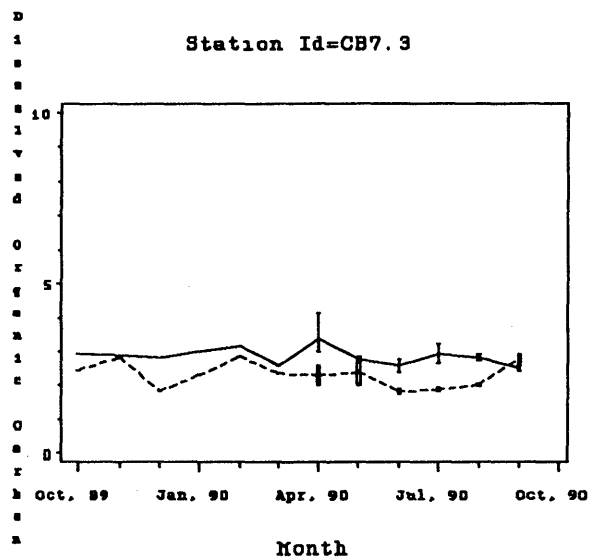
— Surface - - - - Bottom



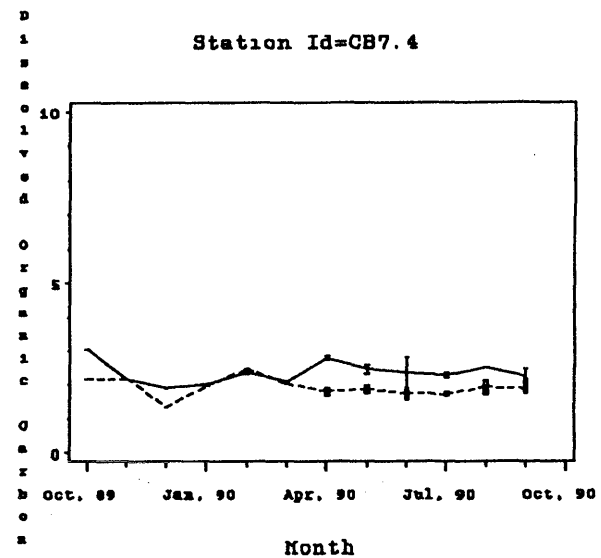
— Surface - - - - Bottom



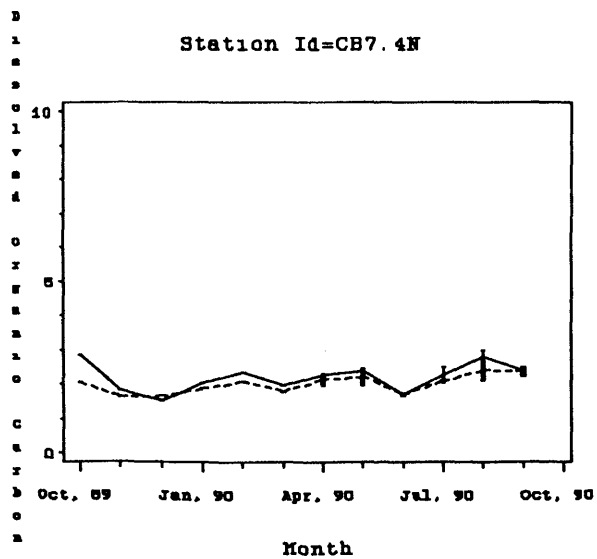
— Surface - - - Bottom



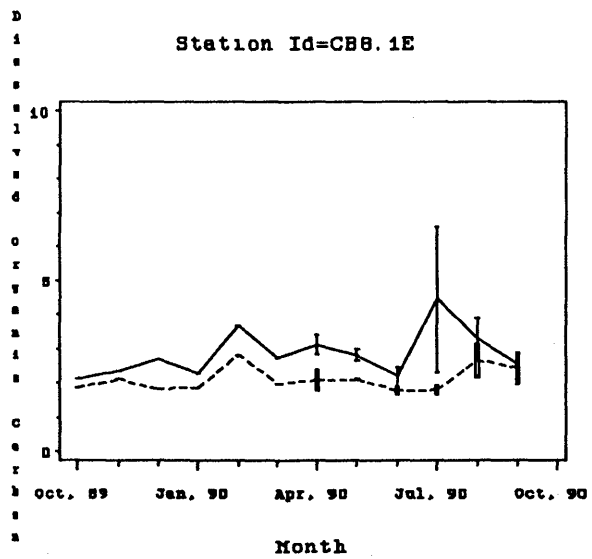
— Surface - - - Bottom



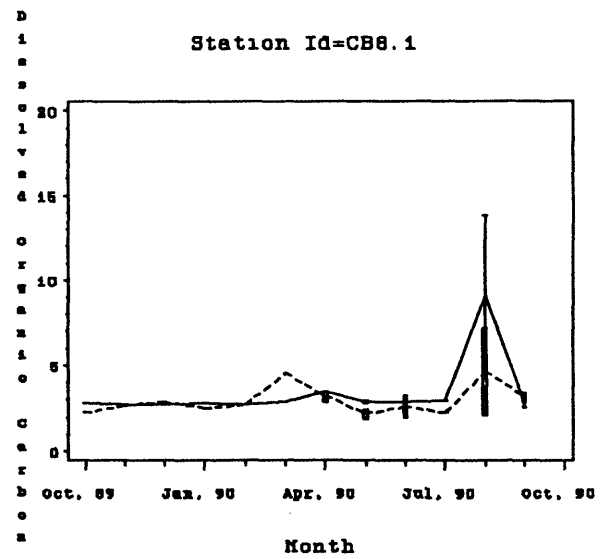
— Surface - - - Bottom



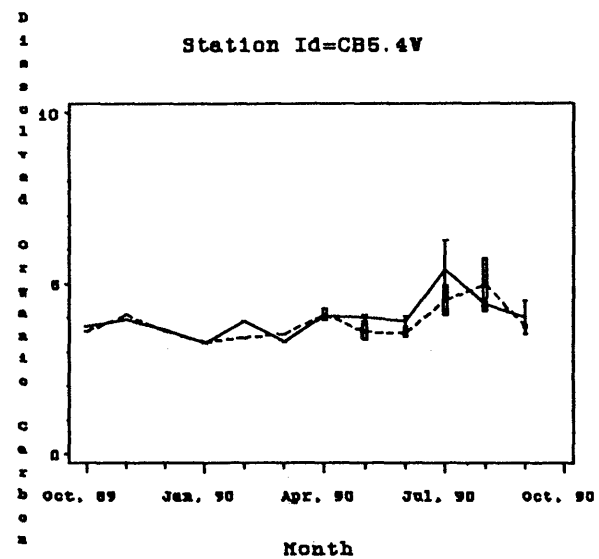
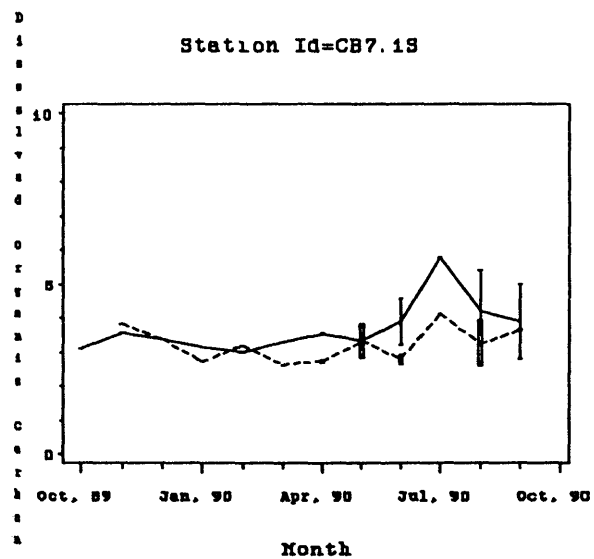
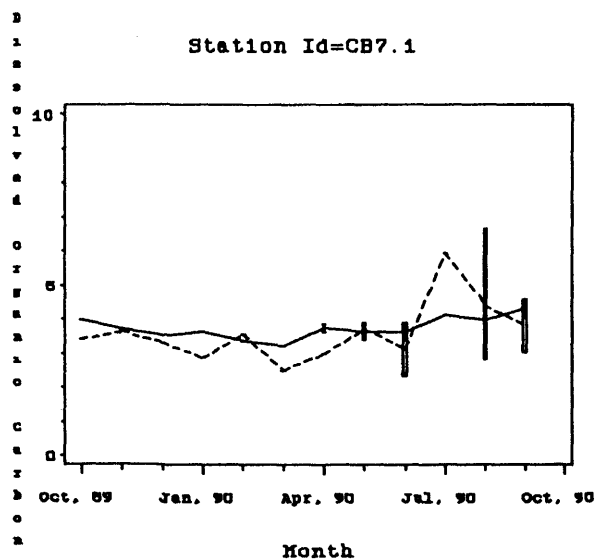
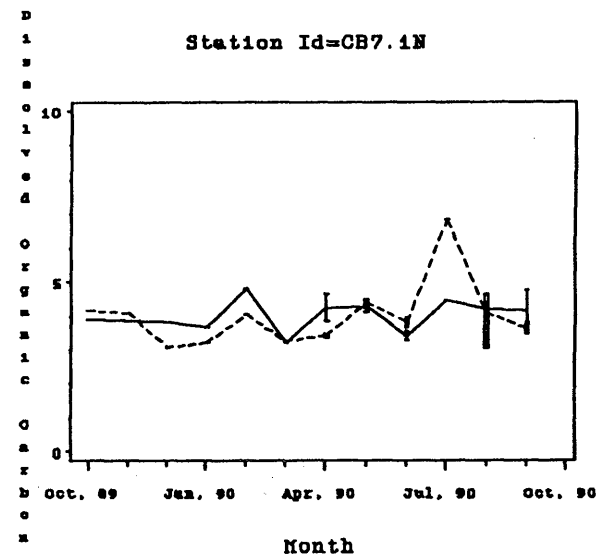
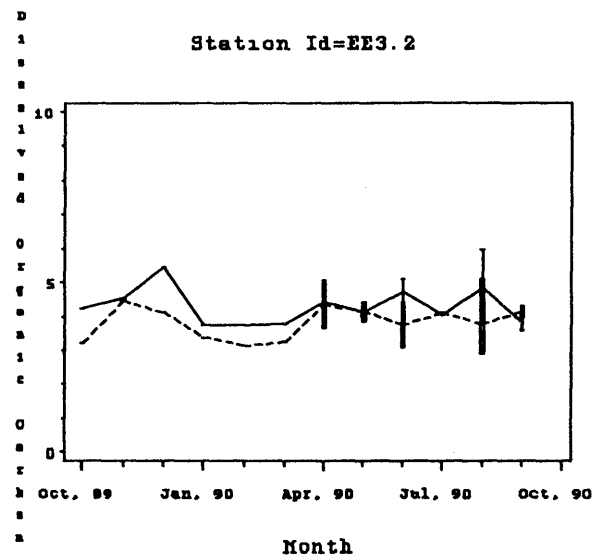
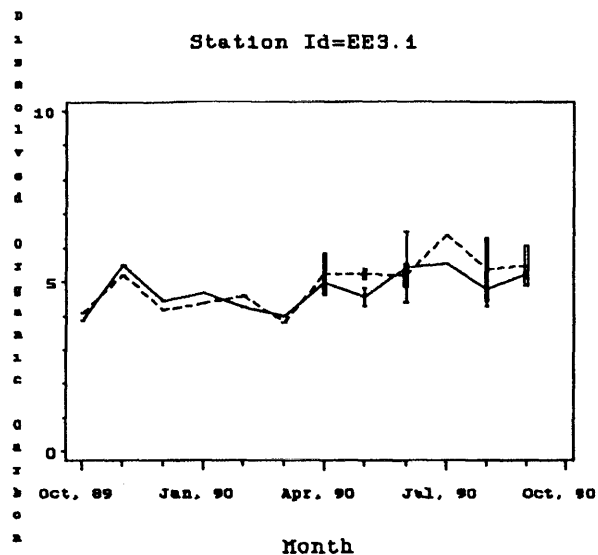
— Surface - - - Bottom

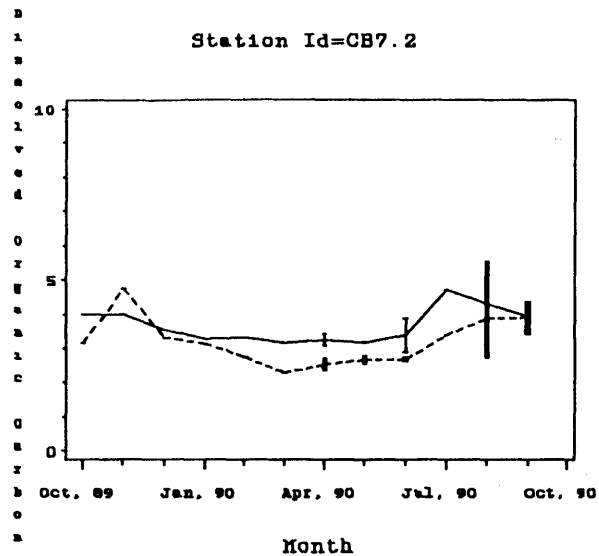


— Surface - - - Bottom

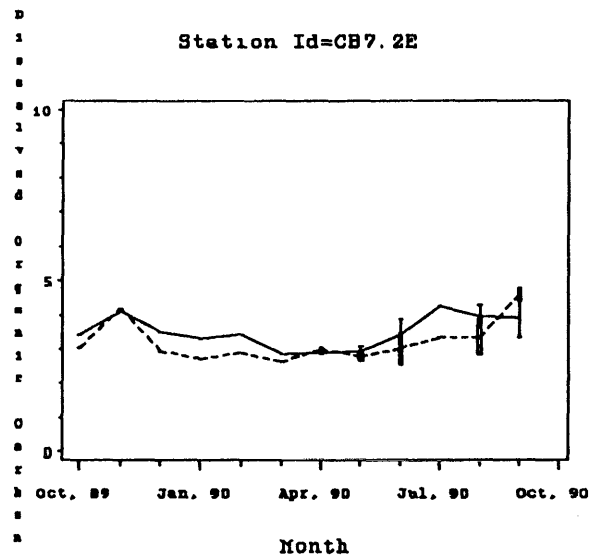


— Surface - - - Bottom

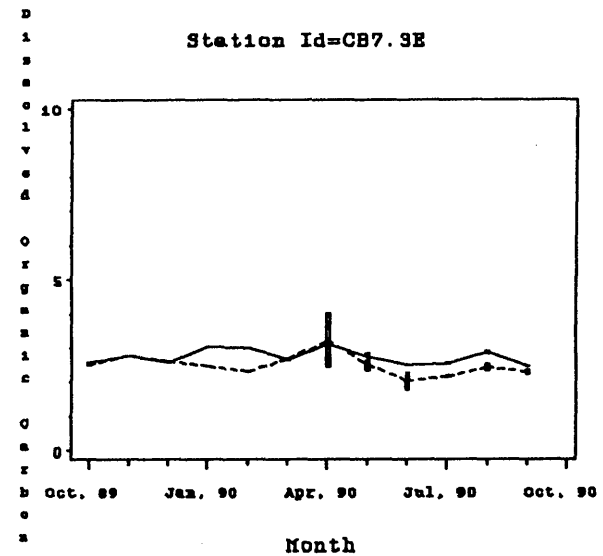




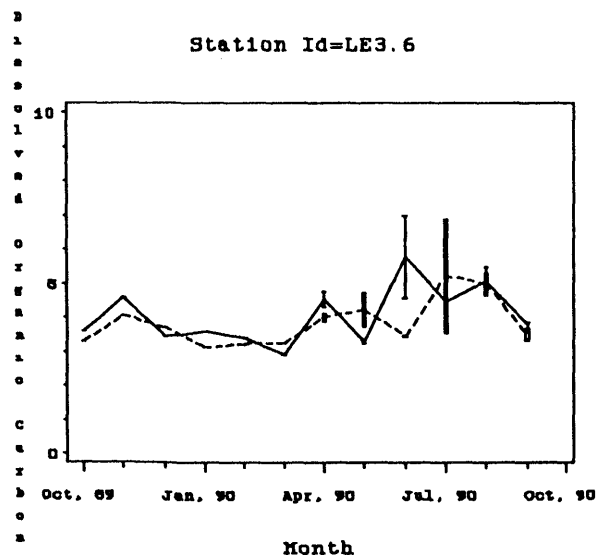
— Surface - - - - Bottom



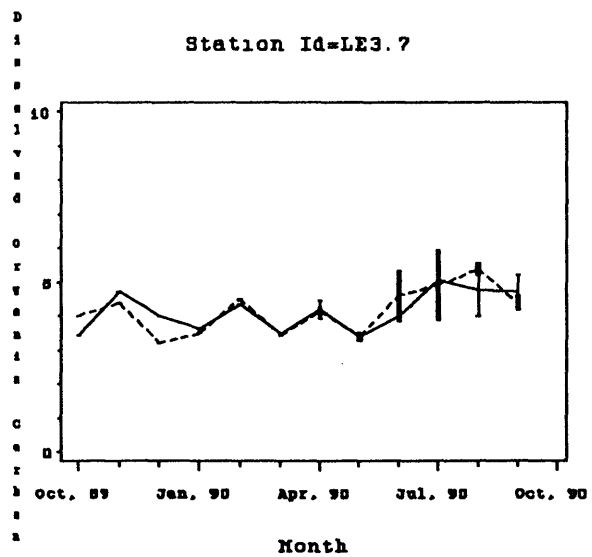
— Surface - - - - Bottom



— Surface - - - - Bottom

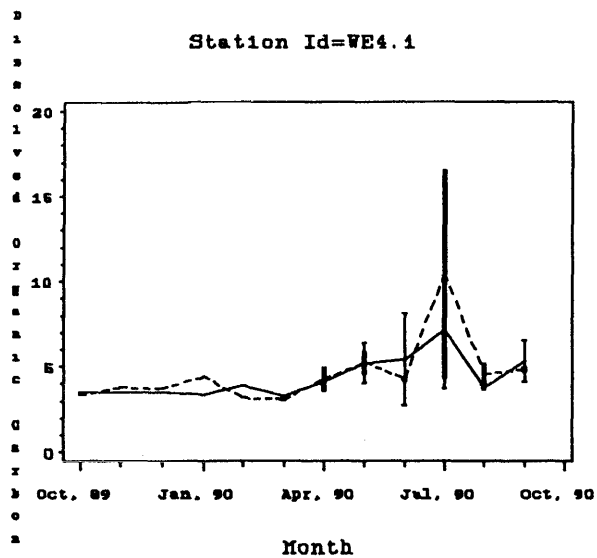


— Surface - - - - Bottom



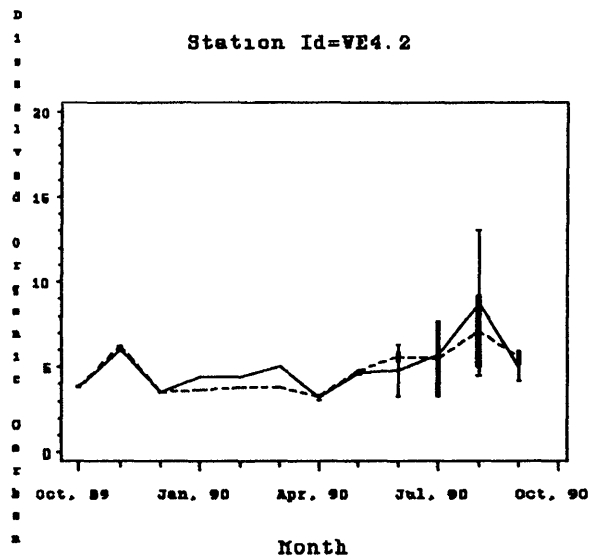
— Surface - - - - Bottom

Station Id=WE4.1



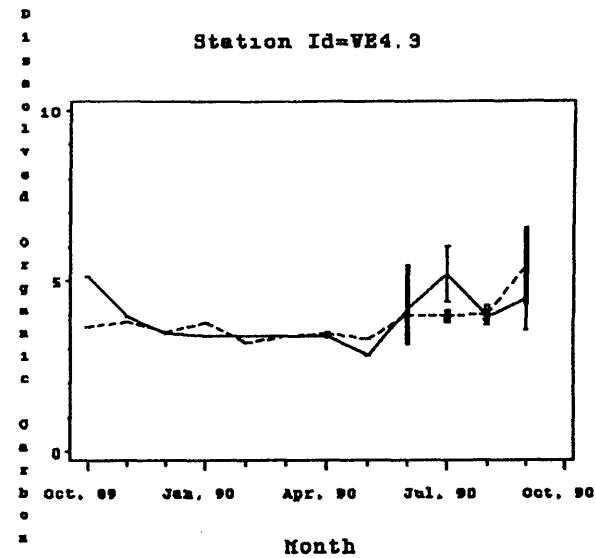
— Surface - - - - Bottom

Station Id=WE4.2



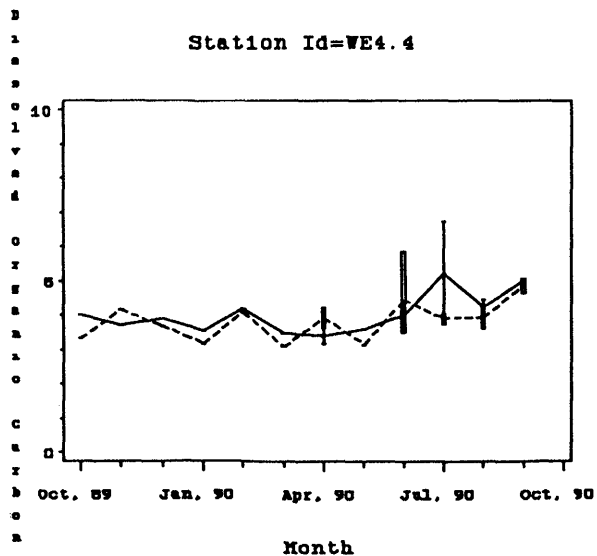
— Surface - - - - Bottom

Station Id=WE4.3



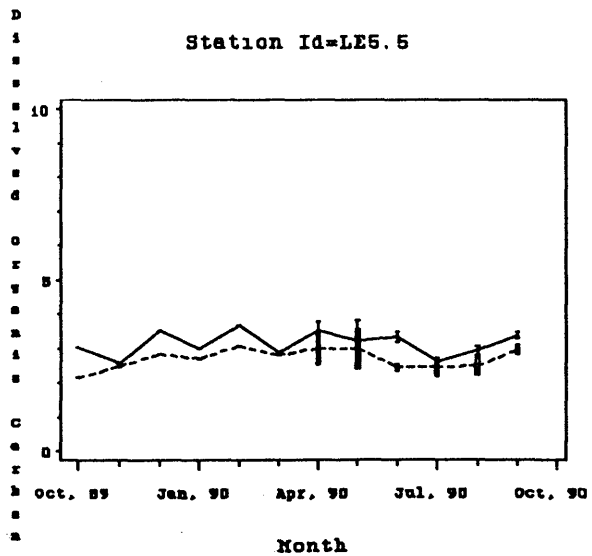
— Surface - - - - Bottom

Station Id=WE4.4



— Surface - - - - Bottom

Station Id=LE5.5



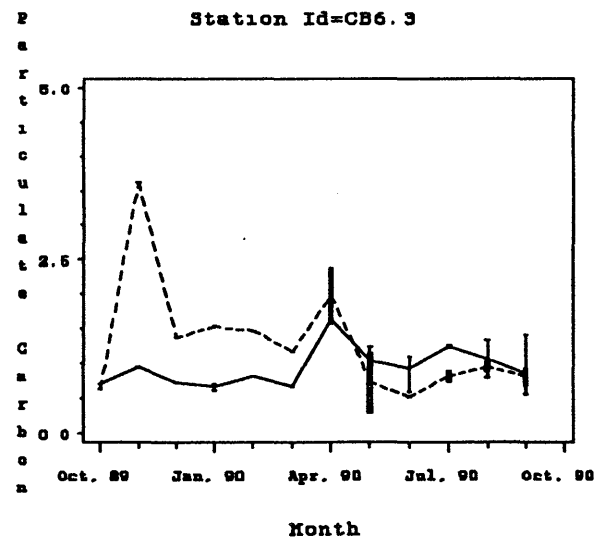
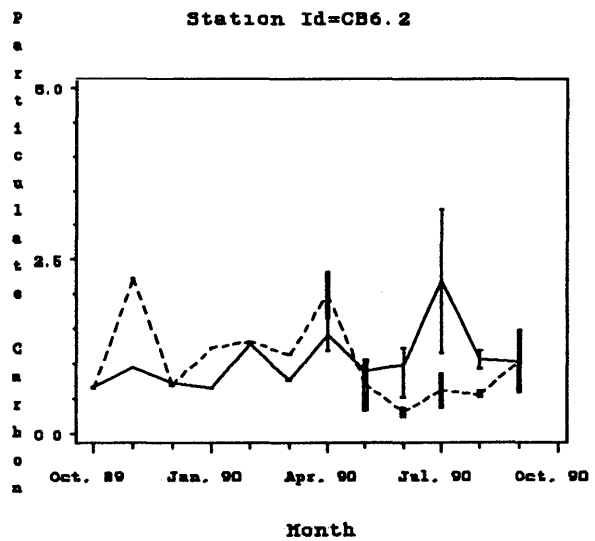
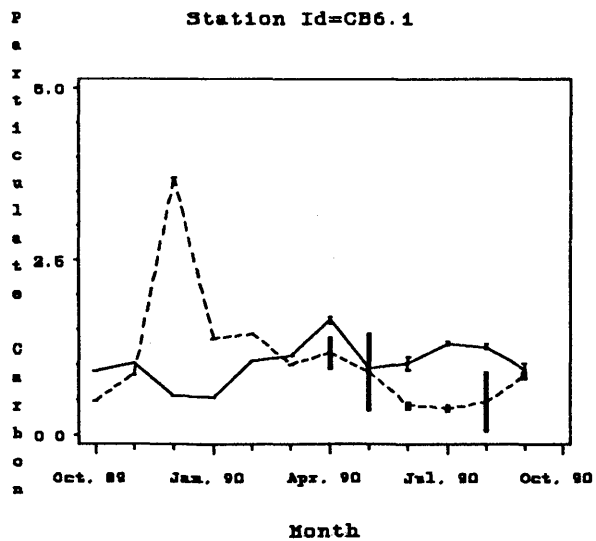
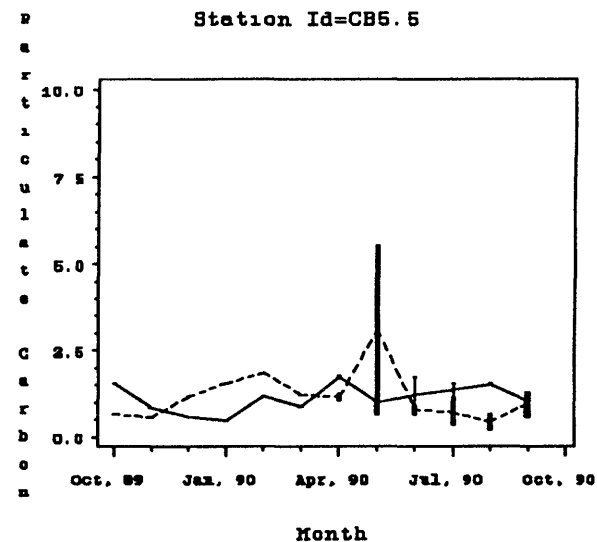
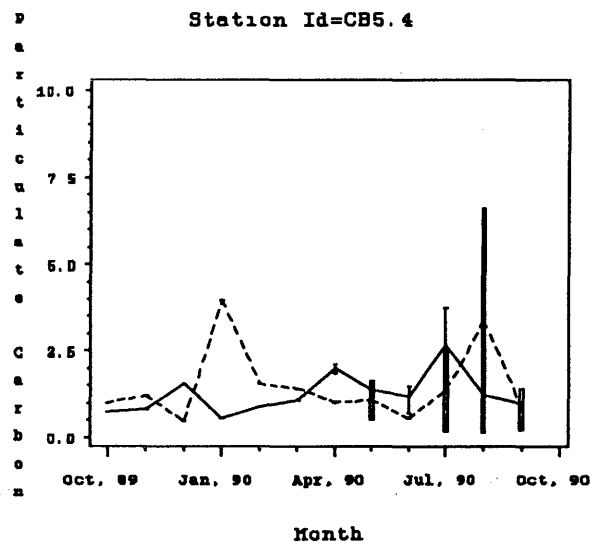
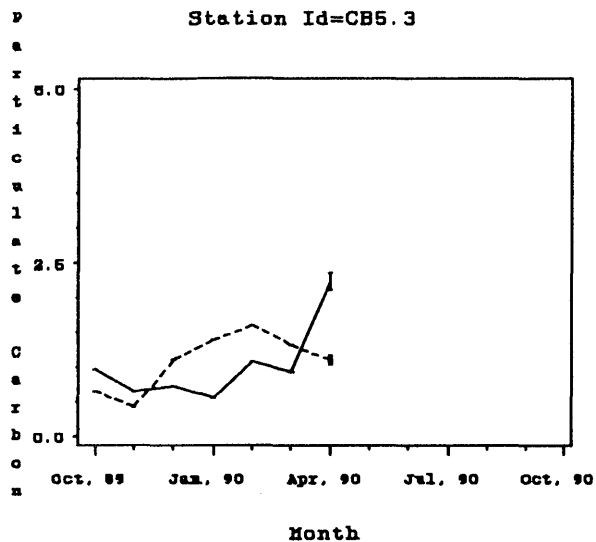
— Surface - - - - Bottom

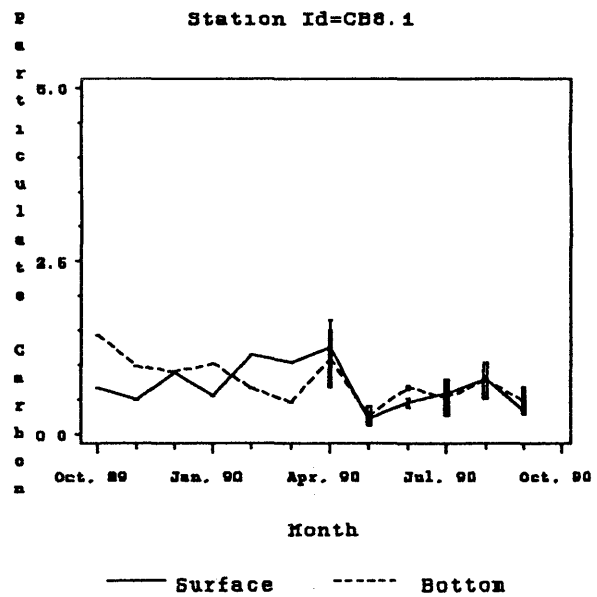
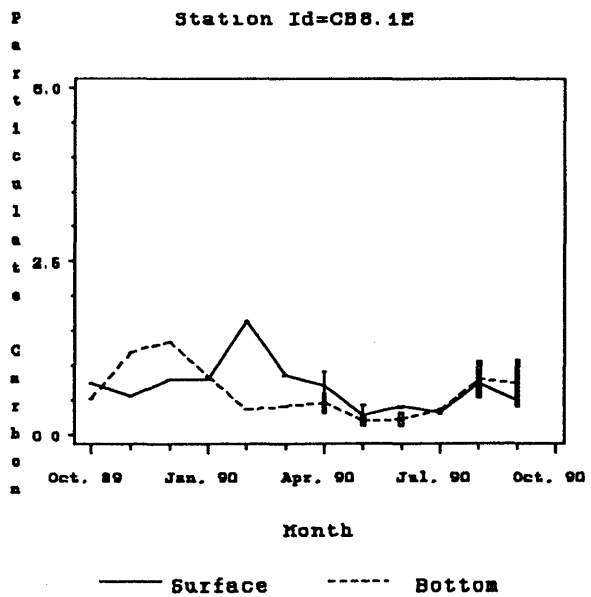
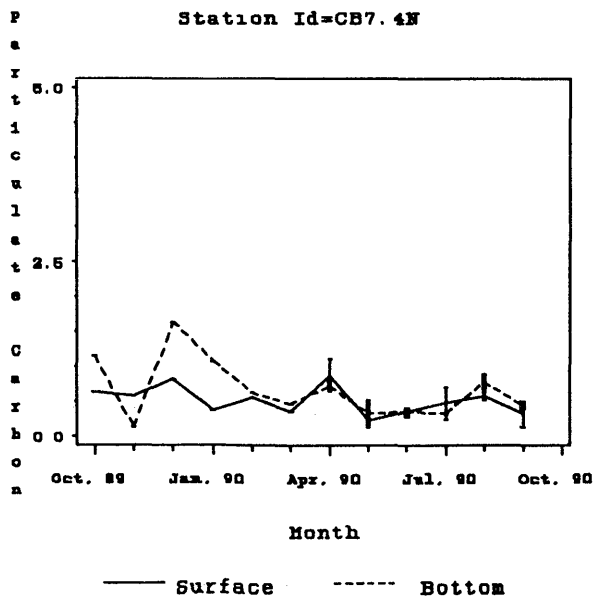
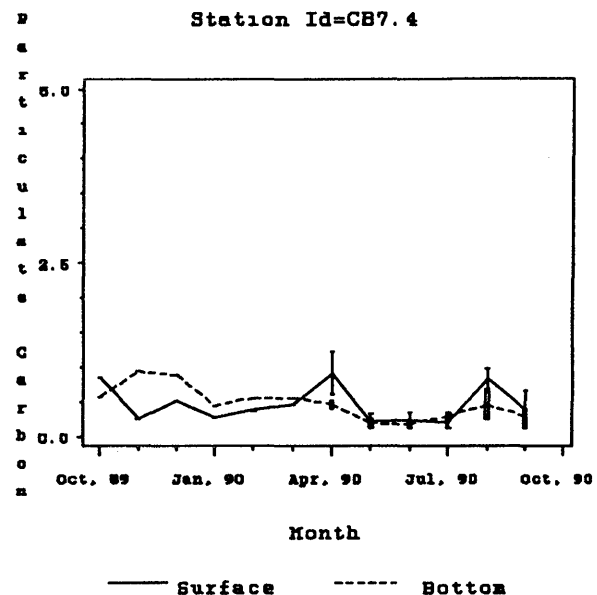
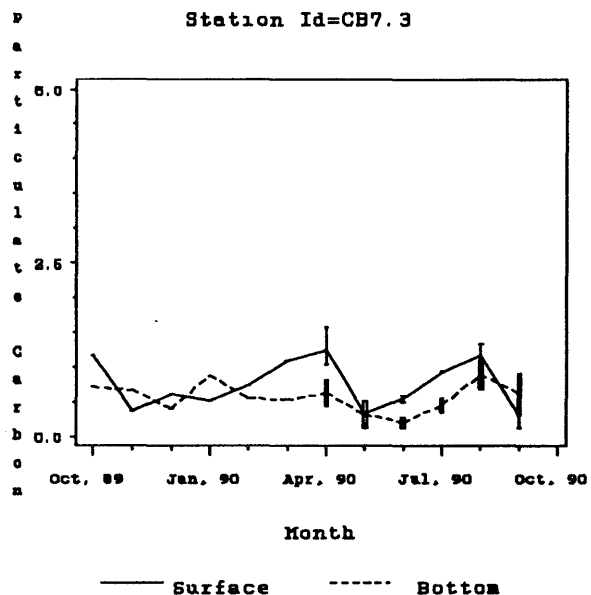
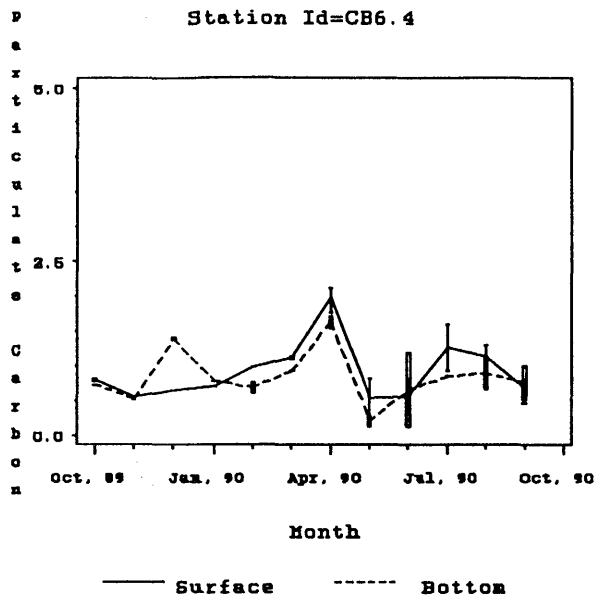
PARTICULATE CARBON

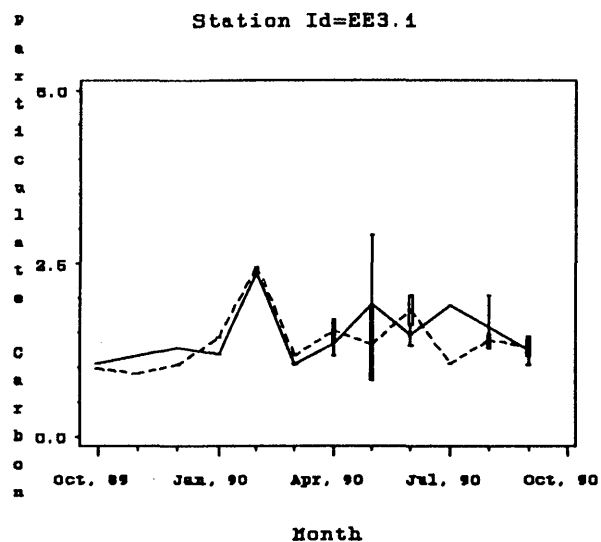
Values reported as mg/l.

Particulate Carbon
October, 1989 - September, 1990

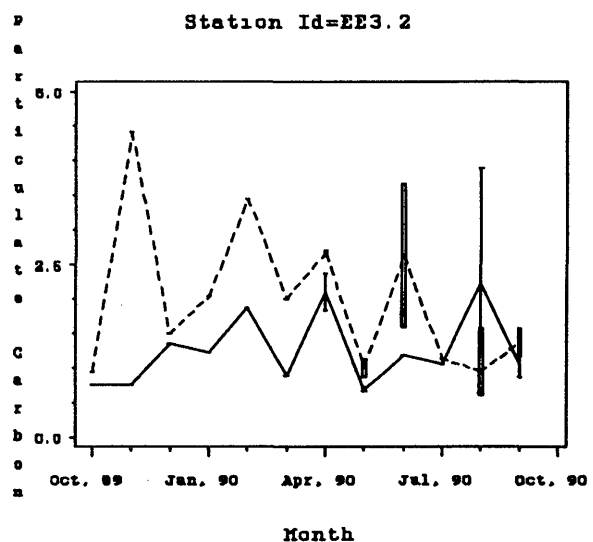
Station	Particulate Carbon (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	2.3470	1.1645	0.5470	1.5890	1.0797	0.4240
CB5.4.....	3.7310	1.3145	0.5440	6.5910	1.4377	0.1370
CB5.5.....	1.7880	1.1706	0.4680	5.5330	1.1818	0.2210
CB6.1.....	1.6930	1.1140	0.5270	3.6980	0.9277	0.0485
CB6.2.....	3.2350	1.1085	0.5250	2.3140	0.9772	0.2460
CB6.3.....	1.6920	1.0016	0.5510	3.6210	1.1845	0.2970
CB6.4.....	2.1100	0.9805	0.2600	1.7100	0.8538	0.1200
CB7.3.....	1.5700	0.7620	0.1200	1.0900	0.5483	0.1200
CB7.4.....	1.2100	0.4563	0.1200	0.9400	0.4195	0.1200
CB7.4N.....	1.1100	0.4911	0.1200	1.6400	0.6044	0.1200
CB8.1E.....	1.6300	0.6222	0.1200	1.3400	0.5656	0.1200
CB8.1.....	1.6500	0.6924	0.1200	1.5100	0.7289	0.1200
EE3.1.....	2.9130	1.4935	0.9010	2.4550	1.3915	0.8050
EE3.2.....	3.8980	1.3636	0.6630	4.4130	1.8682	0.6140
CB7.1N.....	1.9760	1.1051	0.6490	2.8140	1.3367	0.5600
CB7.1.....	1.7400	1.0654	0.5210	3.2860	1.1909	0.3260
CB7.1S.....	2.0660	0.9607	0.4470	1.7450	0.8488	0.3660
CB5.4W.....	2.3600	1.3931	0.6350	2.1060	1.2487	0.5350
CB7.2.....	2.3620	1.1782	0.5240	1.3300	0.9256	0.3920
CB7.2E.....	1.9050	0.9415	0.5440	1.5360	0.7694	0.1790
CB7.3E.....	1.3400	0.6961	0.2800	1.3100	0.6811	0.1200
LE3.6.....	1.9280	1.1252	0.6250	2.5530	1.1459	0.4490
LE3.7.....	1.6940	1.1803	0.6650	1.7430	1.1028	0.6320
WE4.1.....	1.5850	1.0383	0.5640	1.9650	1.1986	0.5380
WE4.2.....	1.7000	0.8014	0.3890	1.8110	0.9017	0.4630
WE4.3.....	2.6830	1.1427	0.5670	1.5460	0.9724	0.5780
WE4.4.....	3.0280	1.0327	0.6260	2.2010	1.1234	0.5880
LE5.5.....	1.6500	0.8053	0.1200	1.8200	0.8471	0.1200



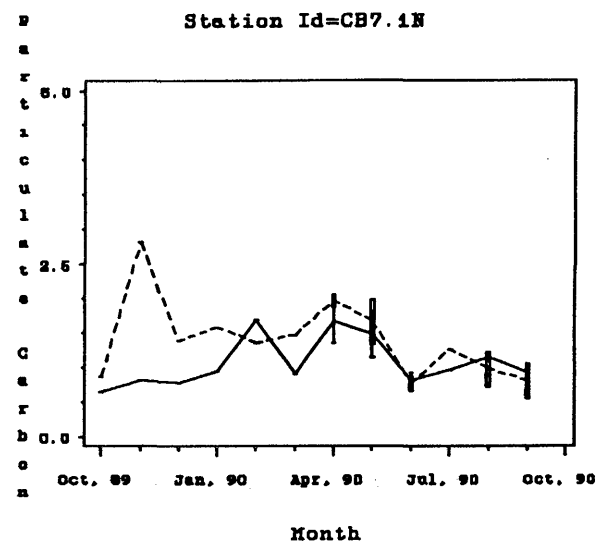




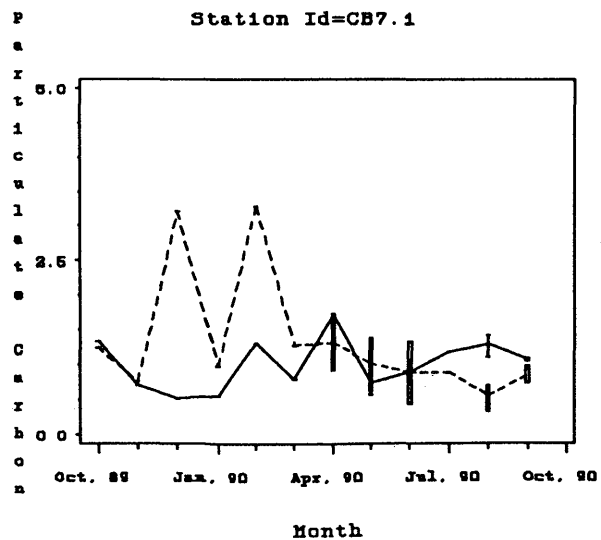
— Surface - - - - Bottom



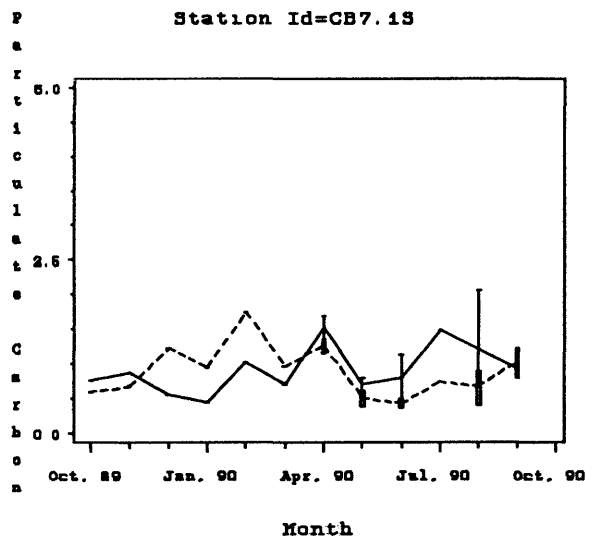
— Surface - - - - Bottom



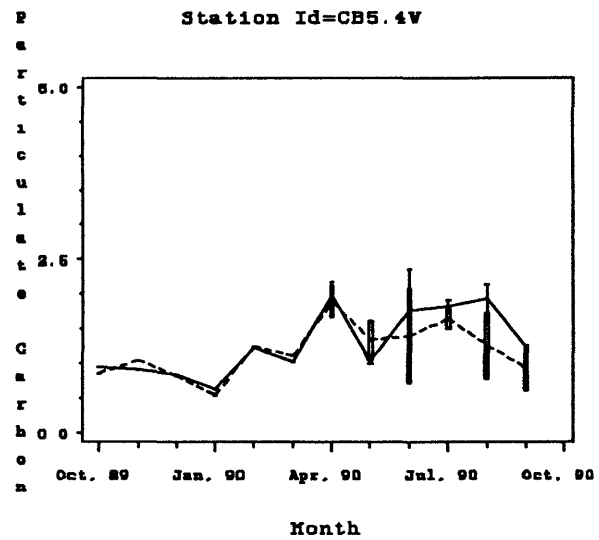
— Surface - - - - Bottom



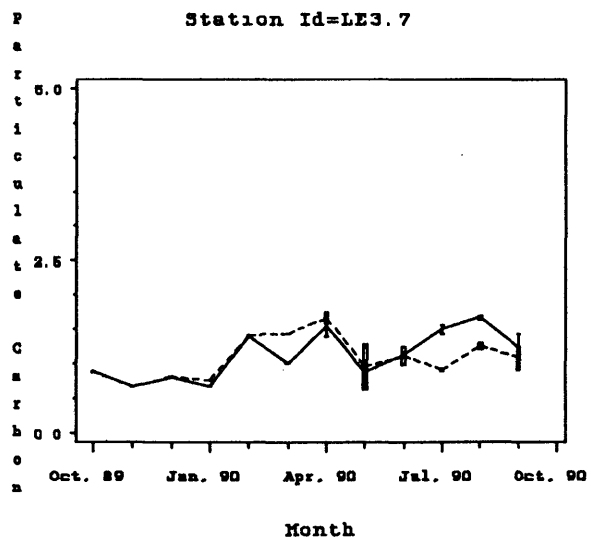
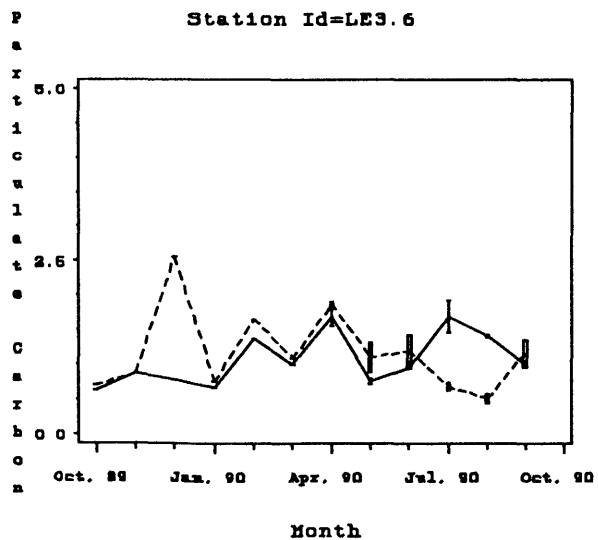
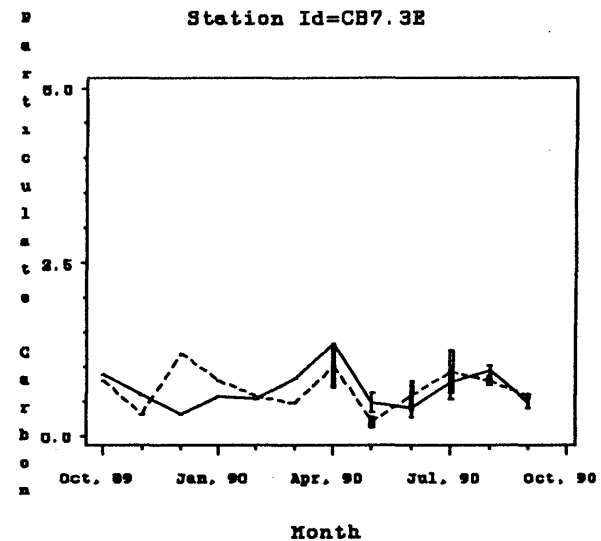
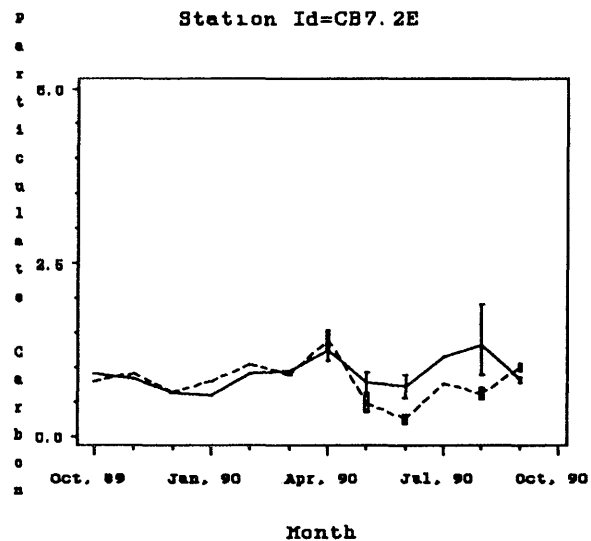
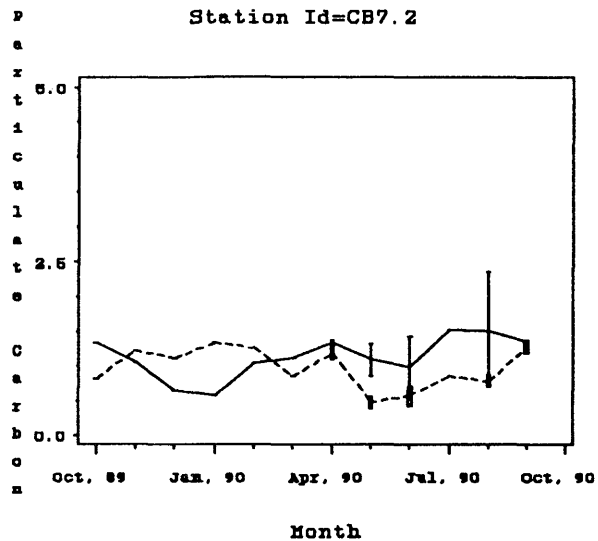
— Surface - - - - Bottom

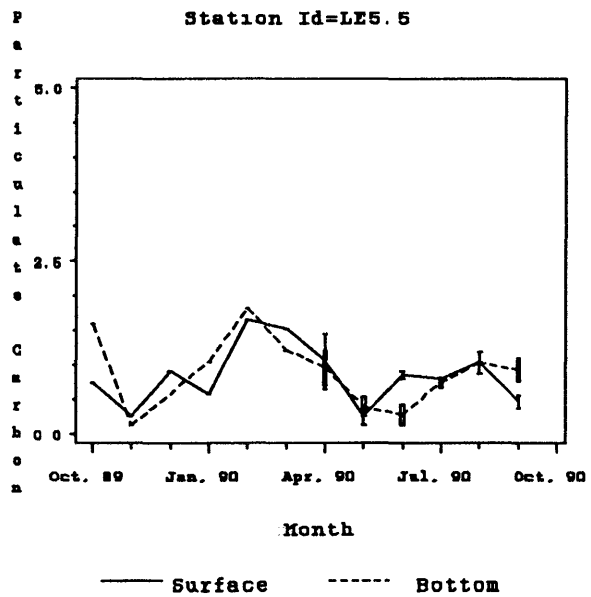
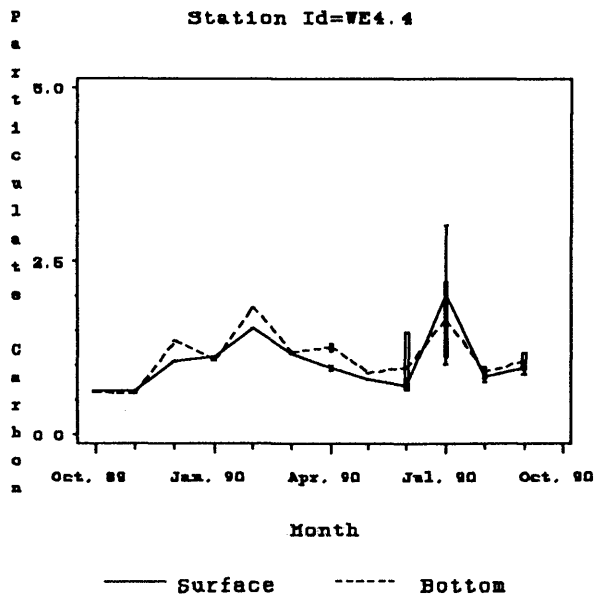
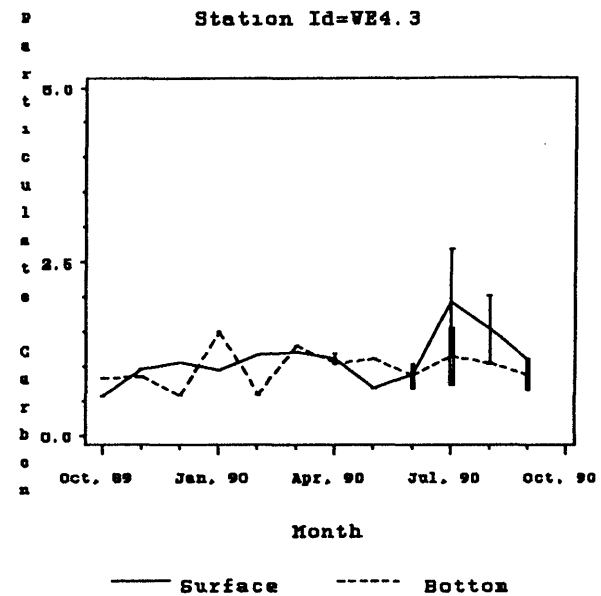
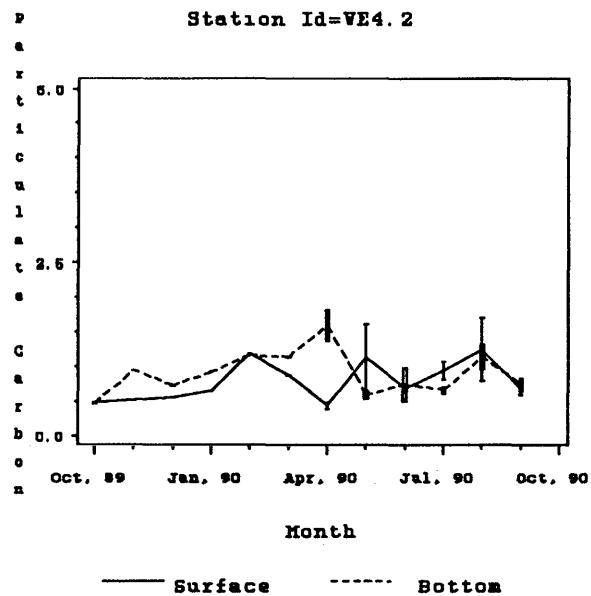
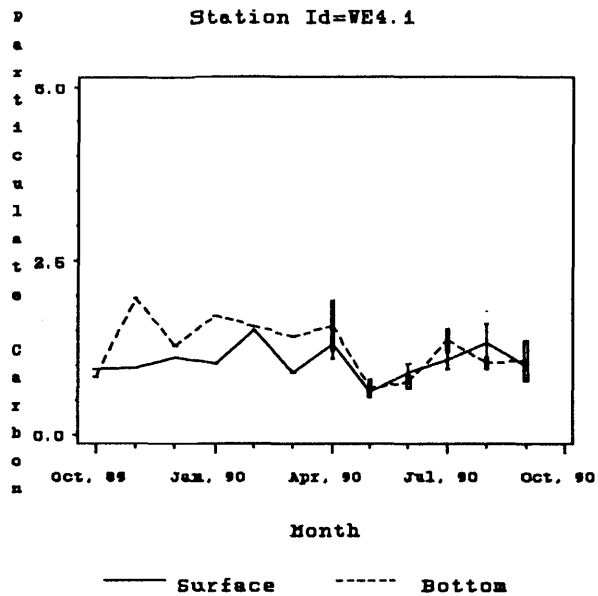


— Surface - - - - Bottom



— Surface - - - - Bottom



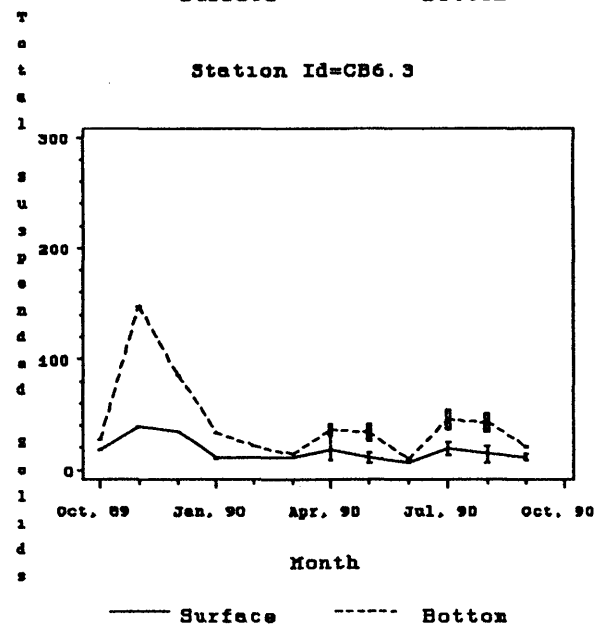
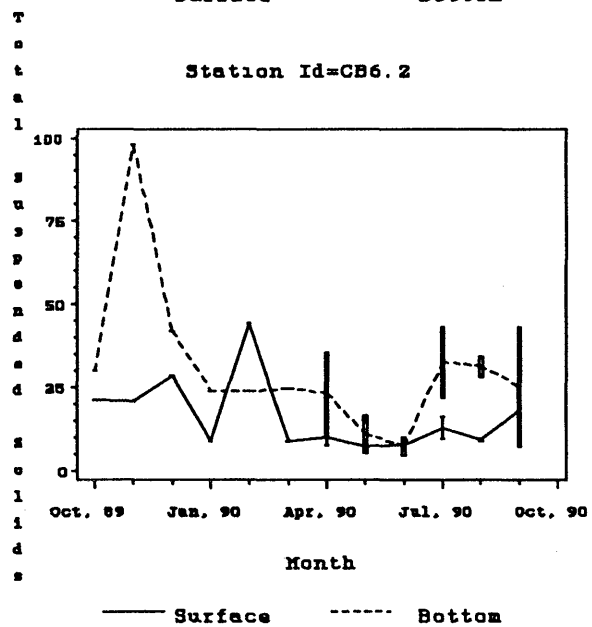
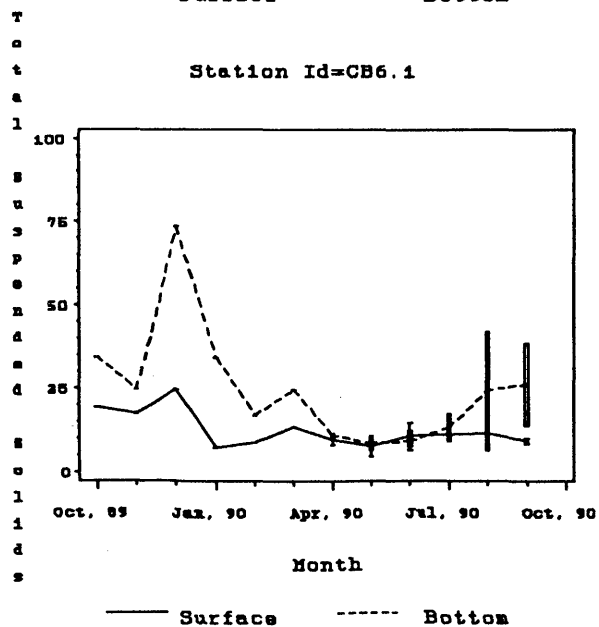
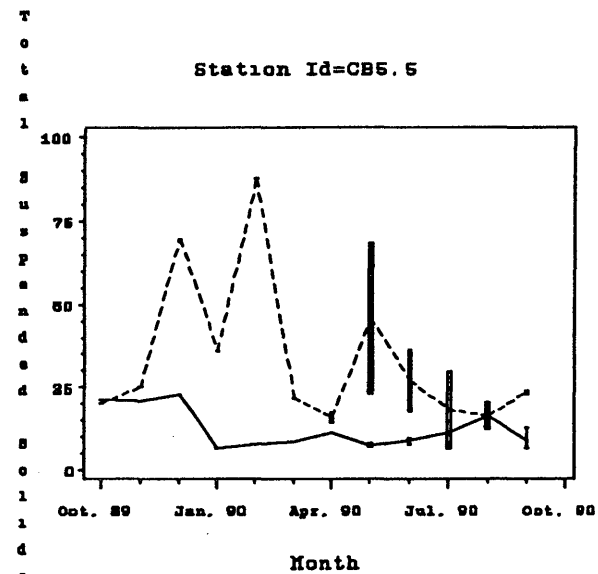
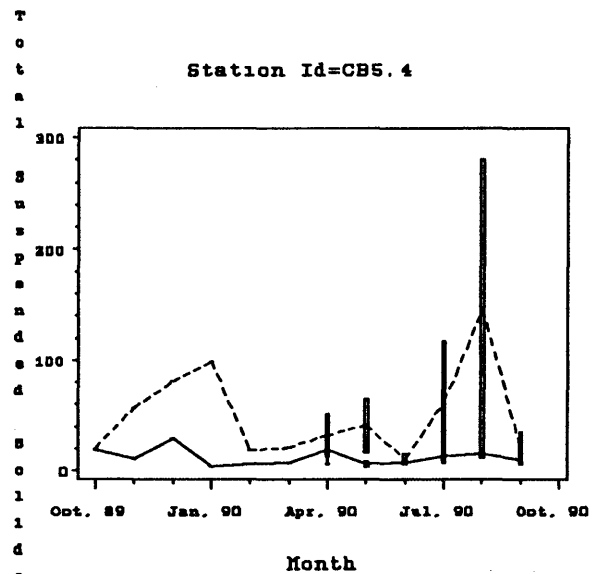
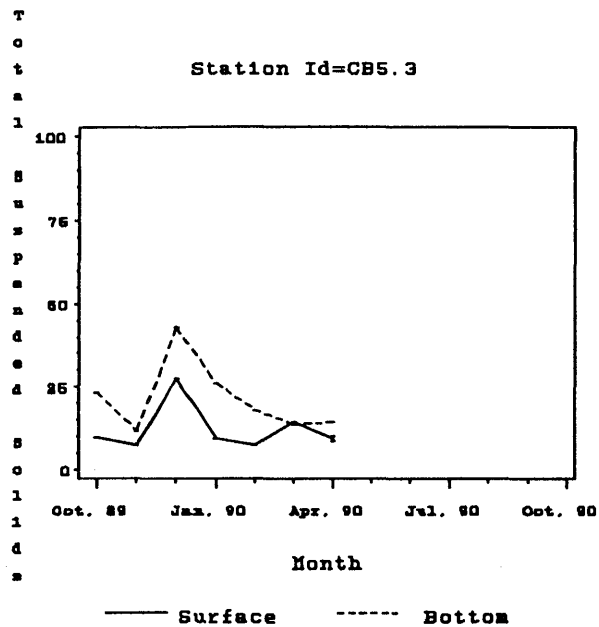


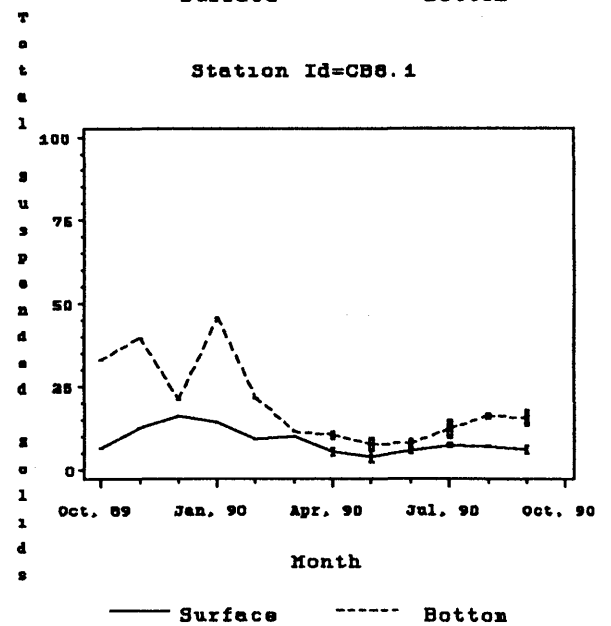
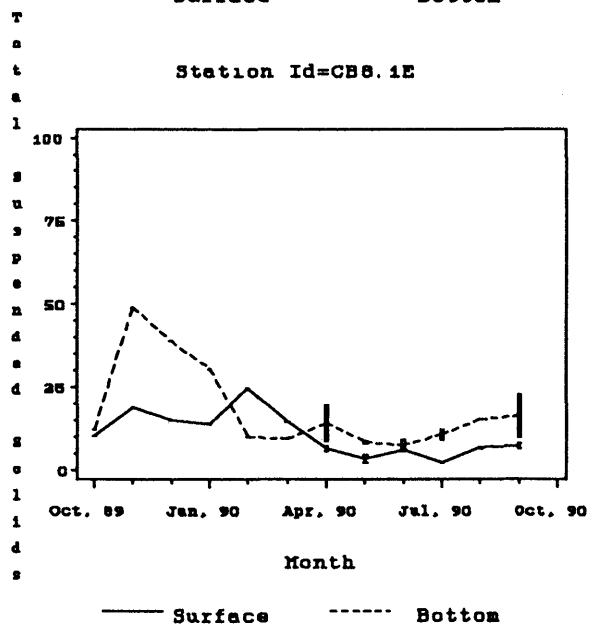
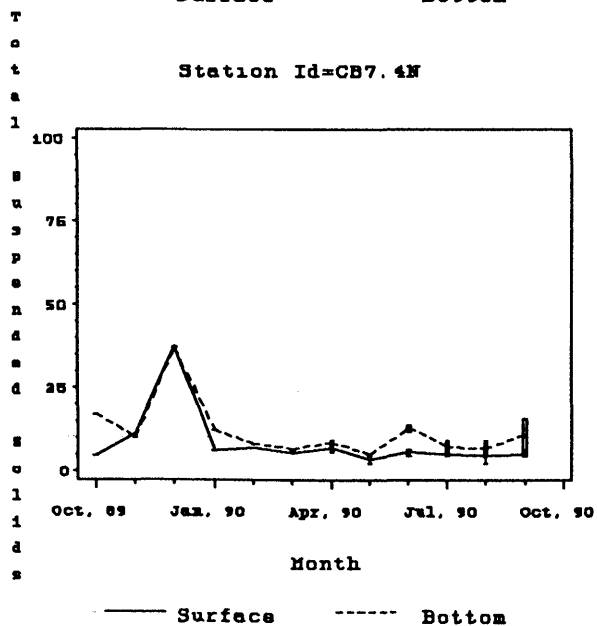
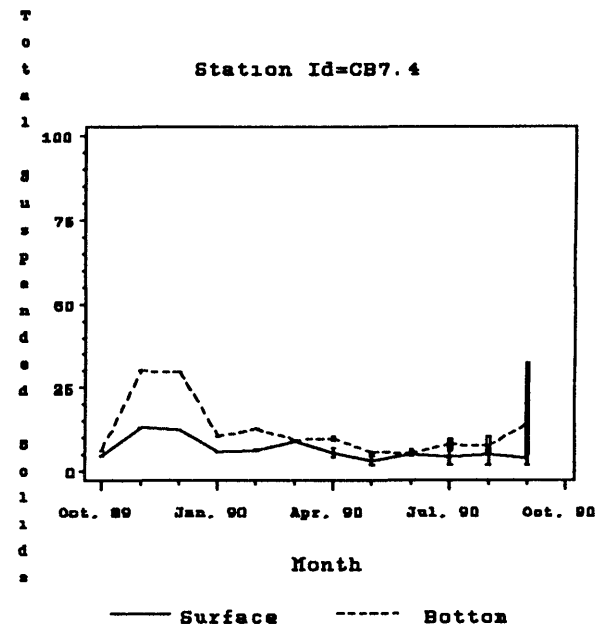
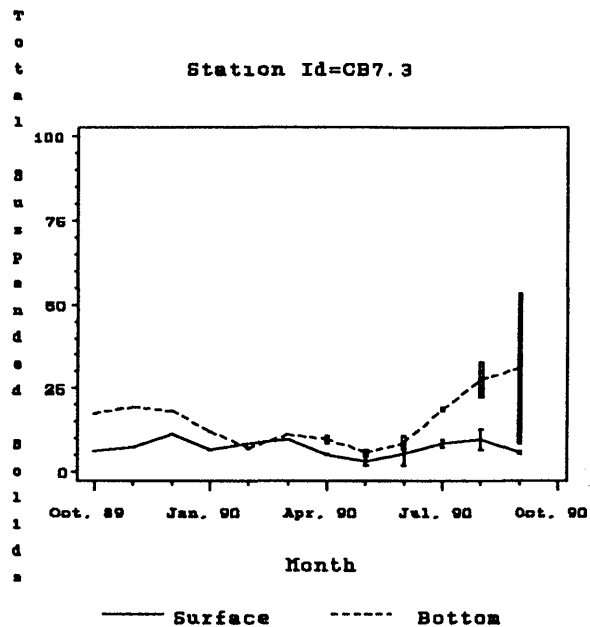
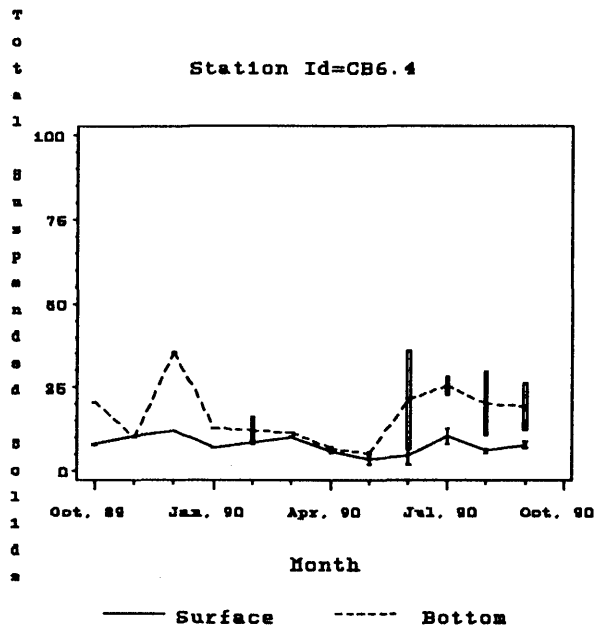
TOTAL SUSPENDED SOLIDS

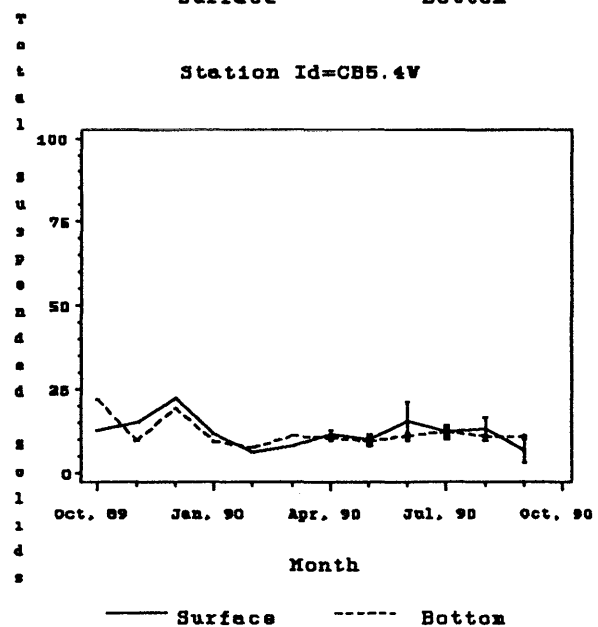
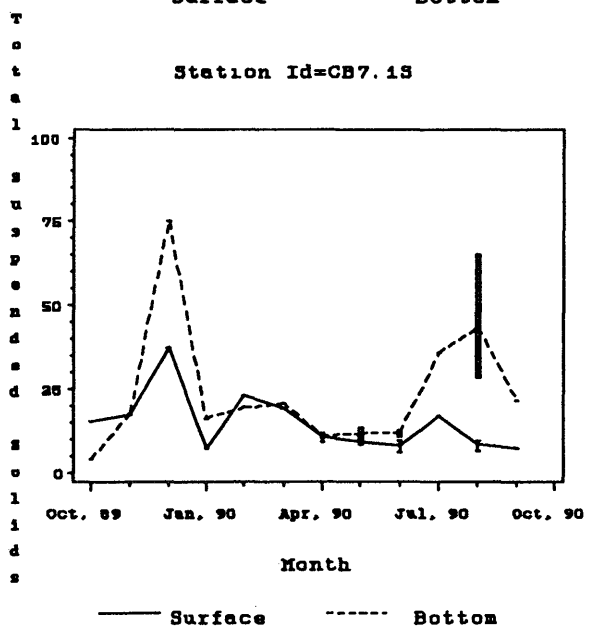
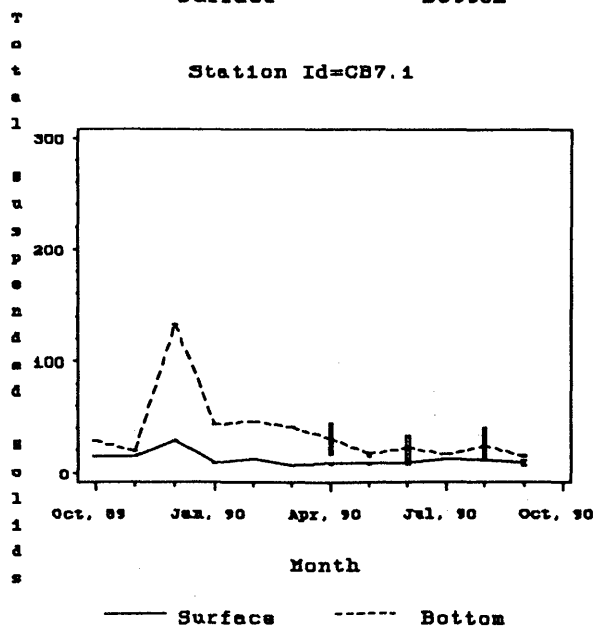
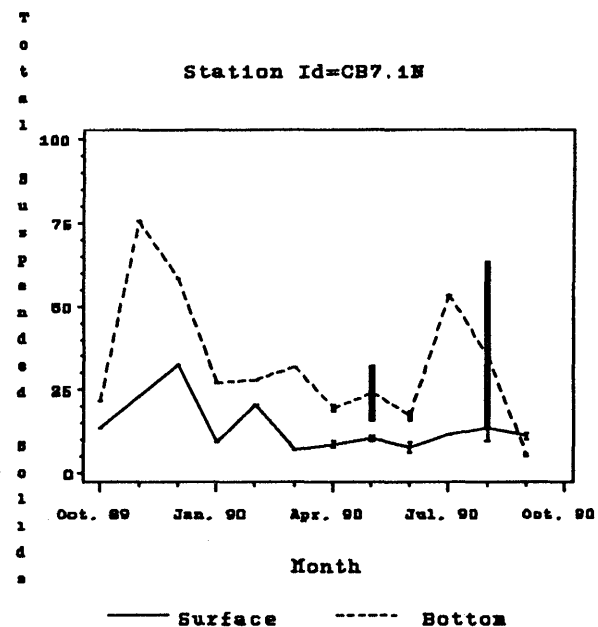
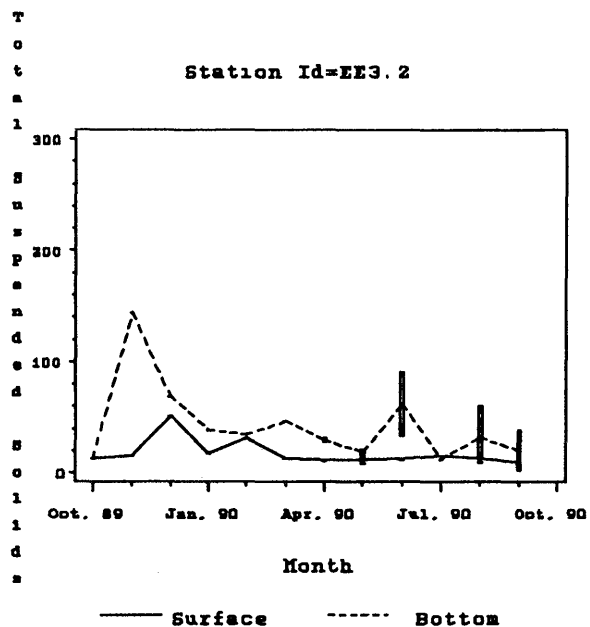
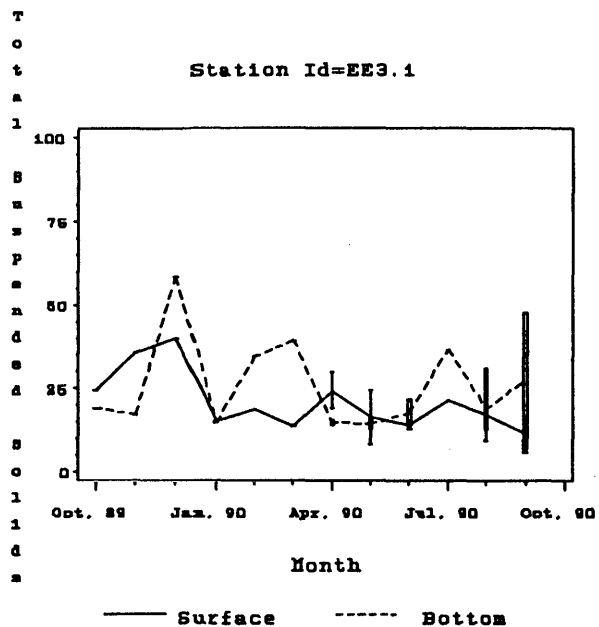
Values reported as mg/l.

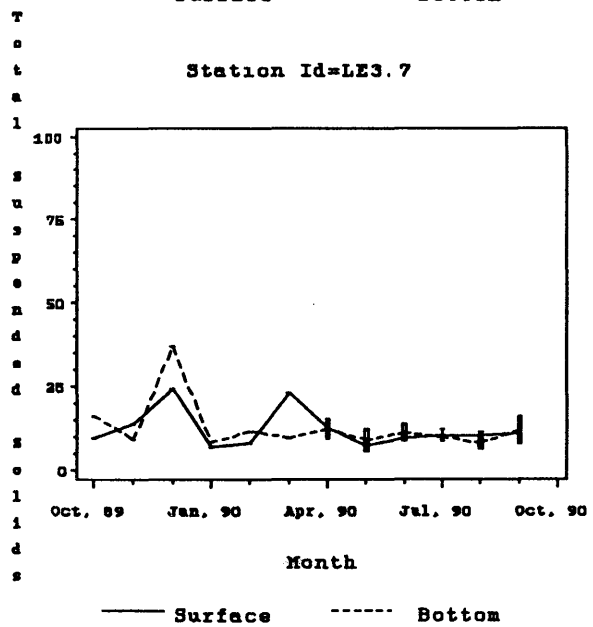
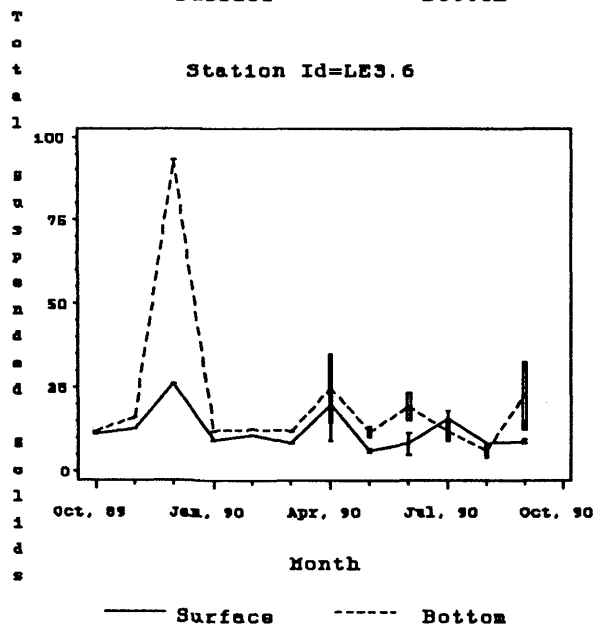
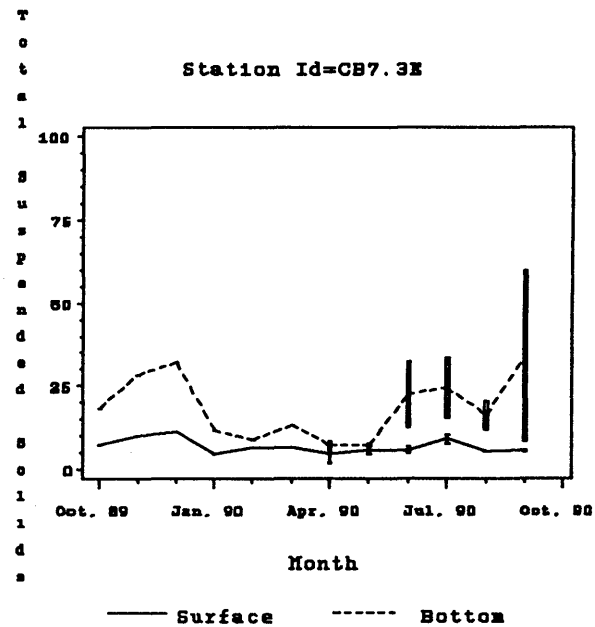
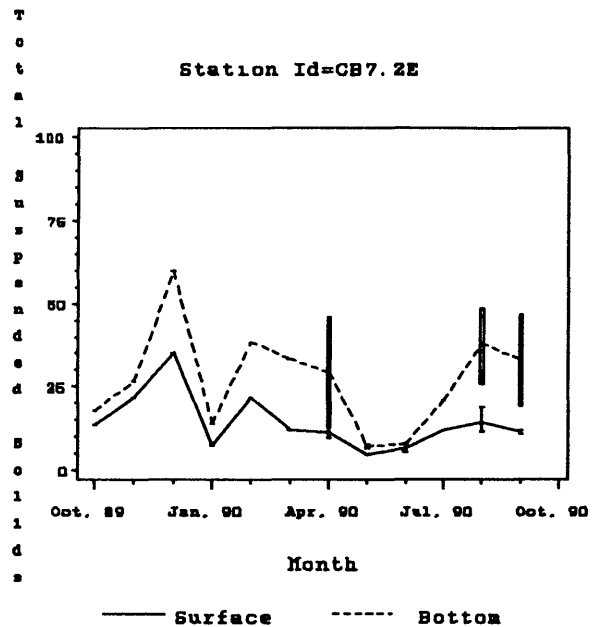
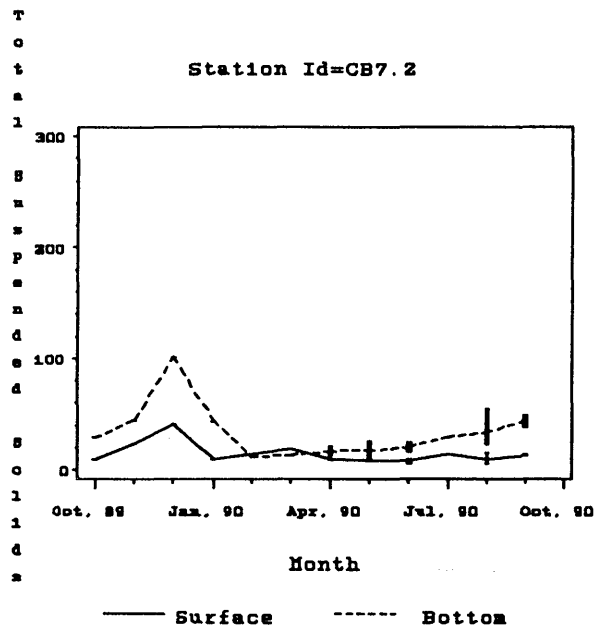
Total Suspended Solids
October, 1989 - September, 1990

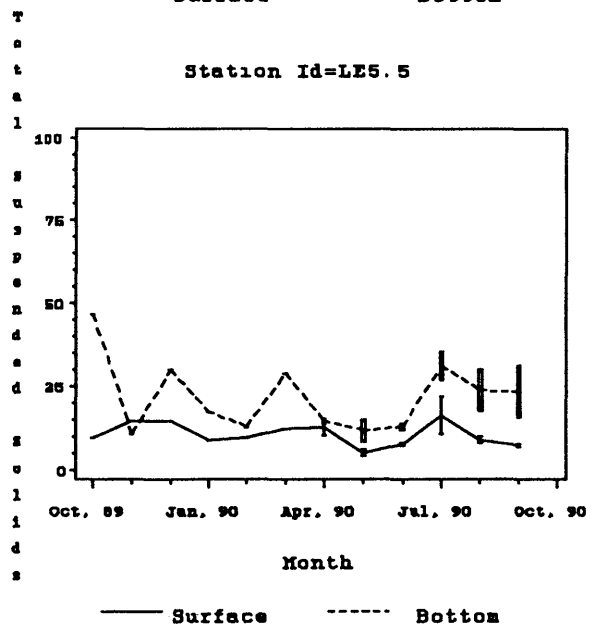
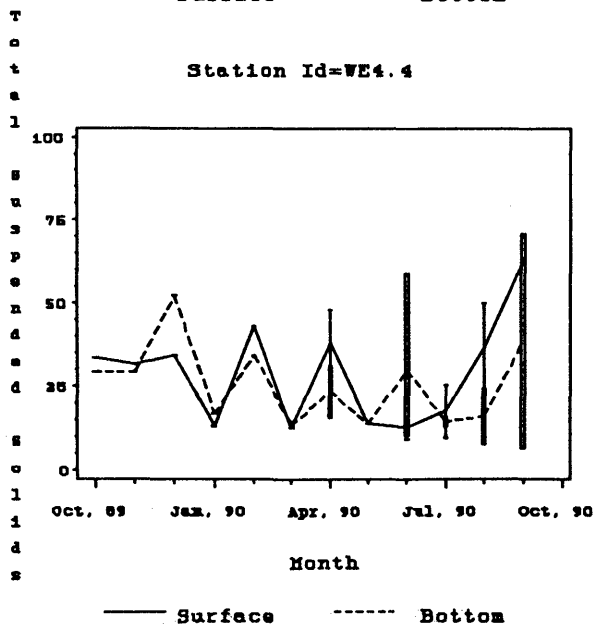
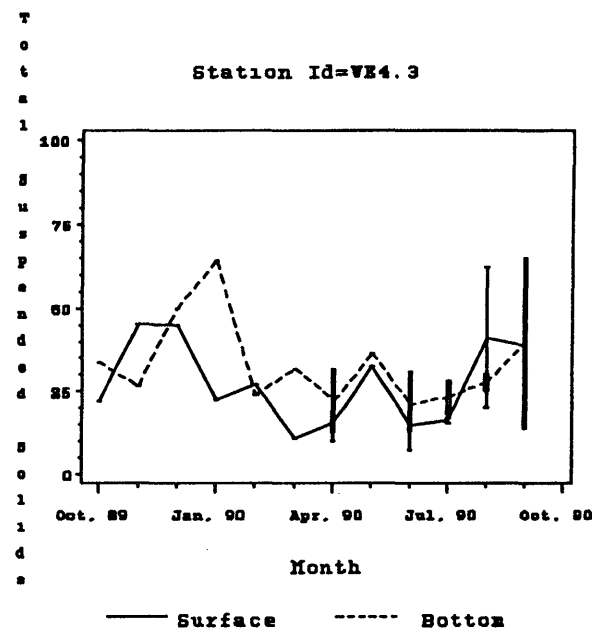
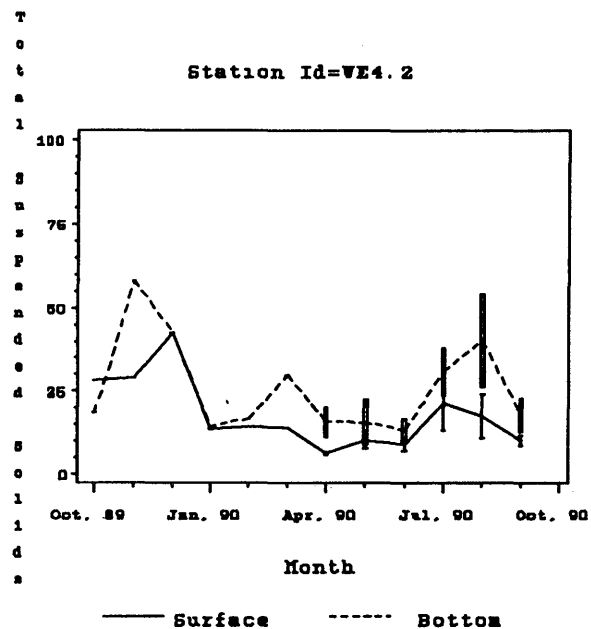
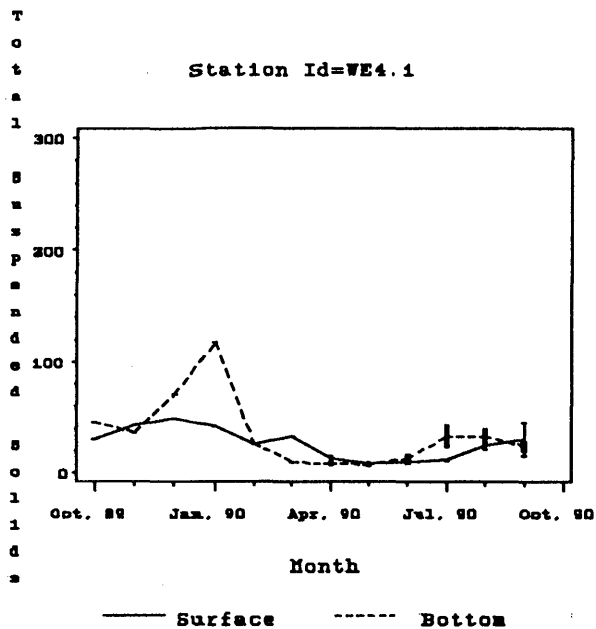
Station	Total Suspended Solids (mg/l)					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	27.60	11.72	7.20	42.80	20.46	11.80
CB5.4.....	31.25	11.27	3.40	280.40	50.99	5.80
CB5.5.....	23.00	11.82	6.60	87.60	30.75	6.60
CB6.1.....	24.40	11.45	4.60	73.40	21.10	6.40
CB6.2.....	44.40	14.11	5.20	98.00	27.91	4.40
CB6.3.....	39.20	15.10	6.00	148.00	39.24	7.60
CB6.4.....	12.70	7.45	2.00	36.00	17.60	4.80
CB7.3.....	12.90	6.84	2.00	53.30	16.06	5.30
CB7.4.....	13.00	5.86	2.00	32.40	11.31	4.50
CB7.4N.....	37.20	7.27	2.00	37.10	11.06	4.30
CB8.1E.....	24.50	8.92	2.00	49.00	16.42	6.10
CB8.1.....	16.20	7.69	2.00	45.80	17.38	5.80
EE3.1.....	39.80	19.45	6.00	58.40	23.53	7.00
EE3.2.....	50.57	15.76	8.40	143.67	39.46	2.20
CB7.1N.....	32.29	12.39	6.20	75.67	29.61	5.00
CB7.1.....	29.00	11.16	6.80	132.80	31.56	11.80
CB7.1S.....	37.43	13.14	6.20	75.20	24.08	4.00
CB5.4W.....	22.20	11.74	3.00	21.80	11.51	7.40
CB7.2.....	40.29	13.19	6.00	101.20	31.59	8.80
CB7.2E.....	35.00	13.03	4.80	59.71	26.63	6.60
CB7.3E.....	11.10	6.66	2.00	60.00	18.71	5.70
LE3.6.....	30.80	11.83	5.00	93.20	19.45	4.25
LE3.7.....	24.20	11.48	6.80	36.75	11.99	5.60
WE4.1.....	48.75	22.91	5.80	117.00	29.93	5.80
WE4.2.....	42.40	16.10	5.80	58.00	24.82	8.80
WE4.3.....	62.00	26.22	7.40	64.80	30.80	12.60
WE4.4.....	63.20	27.47	9.00	70.80	25.66	6.25
LE5.5.....	21.80	10.22	4.10	46.70	21.16	8.40









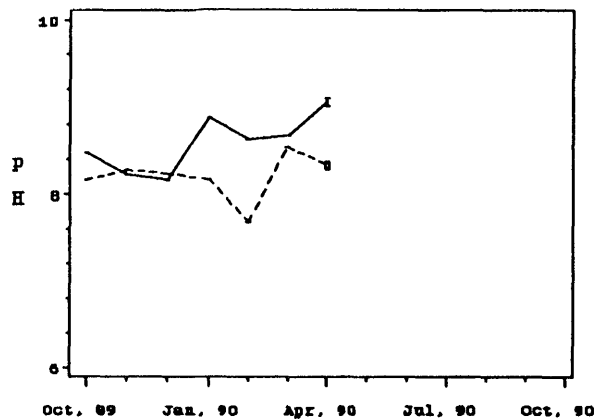


pH

pH
October, 1989 - September, 1990

Station	pH					
	Surface			Bottom		
	Max	Mean	Min	Max	Mean	Min
CB5.3.....	9.11	8.64	8.17	8.54	8.21	7.67
CB5.4.....	9.32	8.58	8.08	8.75	8.15	7.74
CB5.5.....	9.26	8.57	7.99	8.65	8.09	7.68
CB6.1.....	9.12	8.53	8.04	8.71	8.12	7.81
CB6.2.....	9.22	8.60	7.75	9.04	8.27	7.75
CB6.3.....	9.07	8.55	7.43	8.96	8.25	6.99
CB6.4.....	8.89	8.29	8.05	8.73	8.06	7.61
CB7.3.....	8.64	8.24	7.96	8.25	8.01	7.81
CB7.4.....	8.44	8.06	7.60	8.11	8.00	7.83
CB7.4N.....	8.24	8.09	7.93	8.15	8.04	7.92
CB8.1E.....	8.29	8.05	7.85	8.10	7.95	7.74
CB8.1.....	8.55	8.03	7.61	8.33	7.93	7.63
EE3.1.....	8.97	8.41	8.04	8.83	8.37	8.02
EE3.2.....	8.85	8.40	7.88	8.78	8.27	7.76
CB7.1N.....	8.92	8.47	8.08	8.80	8.23	7.59
CB7.1.....	8.88	8.45	7.99	8.63	8.13	7.27
CB7.1S.....	9.16	8.51	7.56	8.72	8.12	7.02
CB5.4W.....	9.12	8.53	8.08	8.98	8.49	7.96
CB7.2.....	9.31	8.61	7.51	8.78	8.17	6.98
CB7.2E.....	9.19	8.49	7.41	8.93	8.21	6.99
CB7.3E.....	8.55	8.18	7.99	8.37	8.04	7.70
LE3.6.....	9.21	8.53	8.11	8.81	8.31	7.90
LE3.7.....	9.22	8.55	7.96	9.21	8.45	7.83
WE4.1.....	9.60	8.39	7.12	9.16	8.26	6.94
WE4.2.....	9.05	8.52	8.07	8.73	8.24	7.69
WE4.3.....	8.72	8.23	7.34	8.61	8.10	6.84
WE4.4.....	8.46	8.17	7.23	8.55	8.16	7.02
LE5.5.....	8.47	8.09	7.75	8.16	7.95	7.72

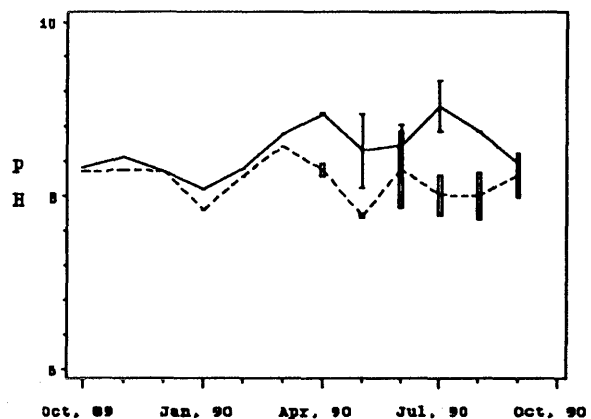
Station Id=CB5.3



Month

— Surface - - - - Bottom

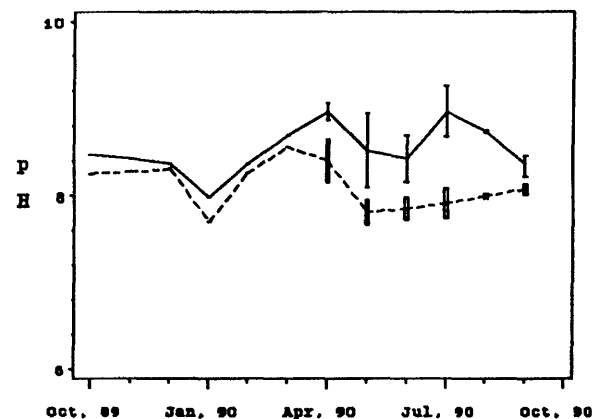
Station Id=CB5.4



Month

— Surface - - - - Bottom

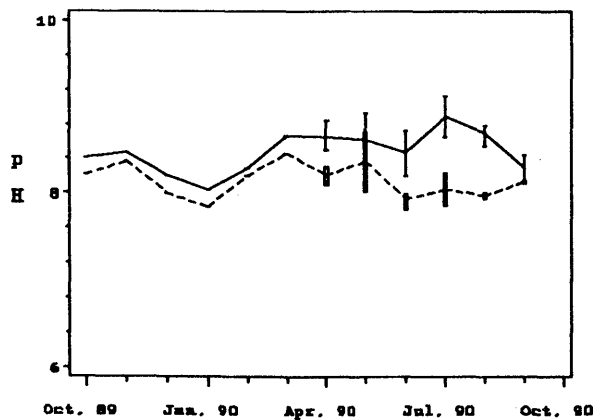
Station Id=CB5.5



Month

— Surface - - - - Bottom

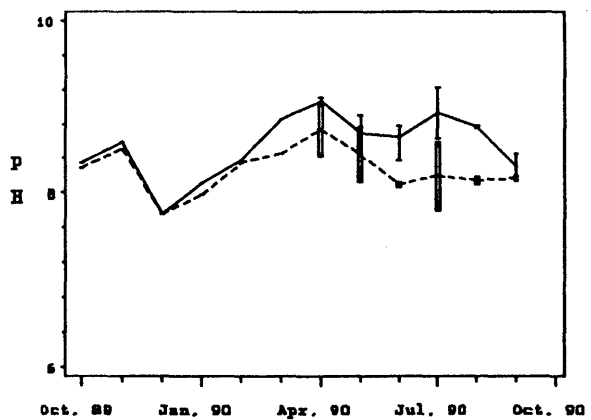
Station Id=CB6.1



Month

— Surface - - - - Bottom

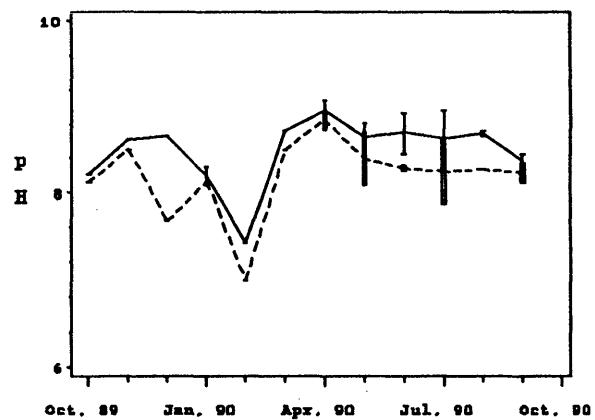
Station Id=CB6.2



Month

— Surface - - - - Bottom

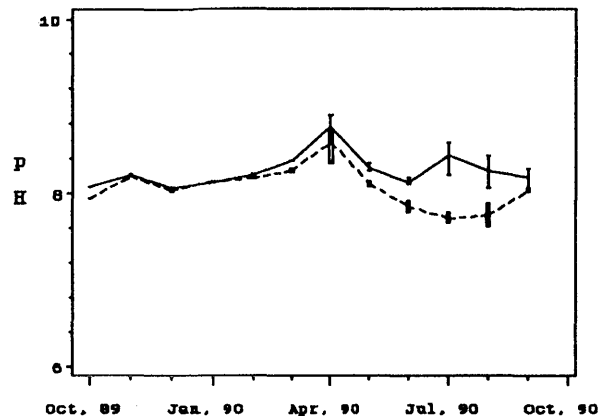
Station Id=CB6.3



Month

— Surface - - - - Bottom

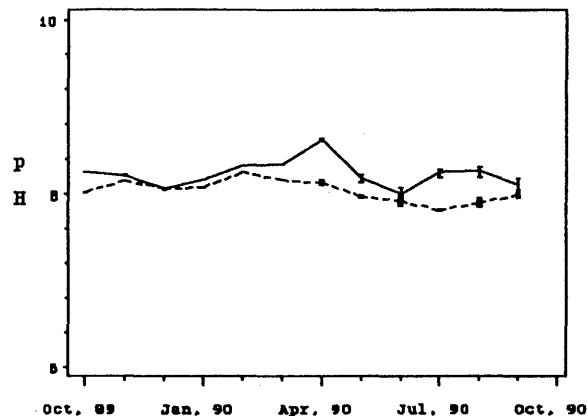
Station Id=CB6.4



Month

— Surface - - - - Bottom

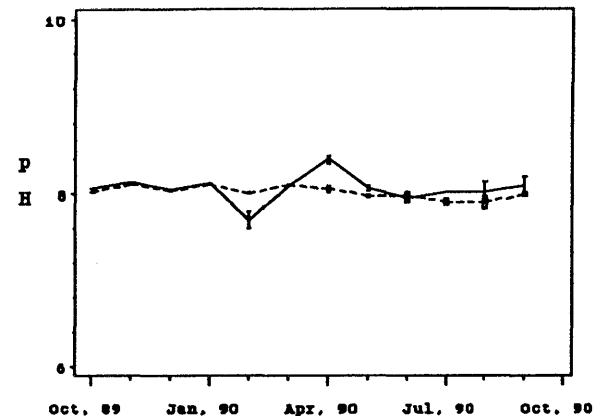
Station Id=CB7.3



Month

— Surface - - - - Bottom

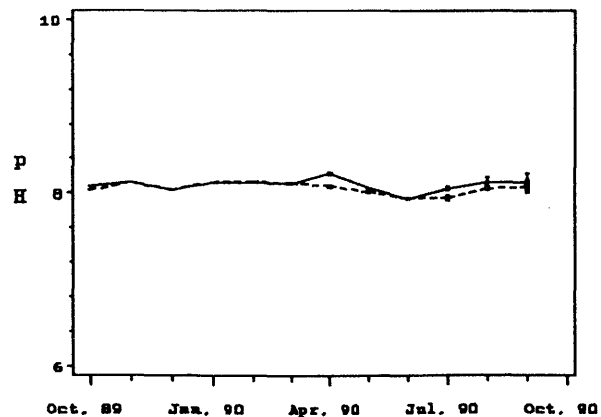
Station Id=CB7.4



Month

— Surface - - - - Bottom

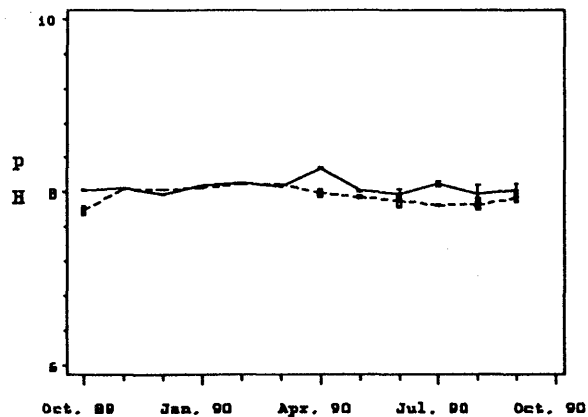
Station Id=CB7.4N



Month

— Surface - - - - Bottom

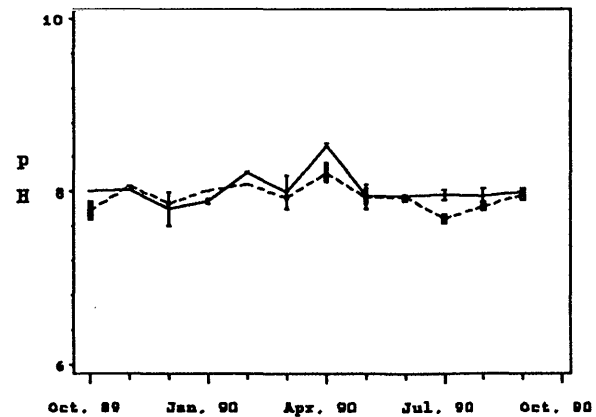
Station Id=CB8.1E



Month

— Surface - - - - Bottom

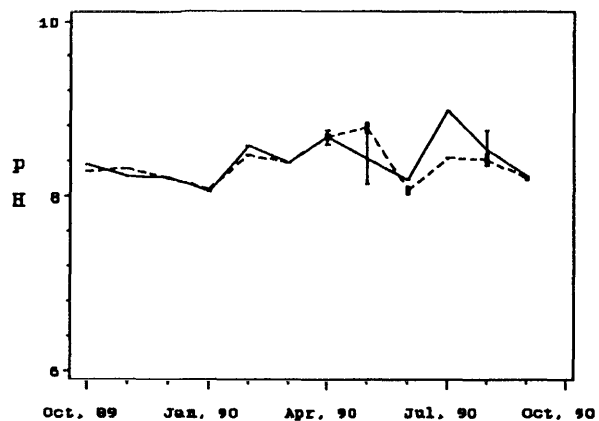
Station Id=CB8.1



Month

— Surface - - - - Bottom

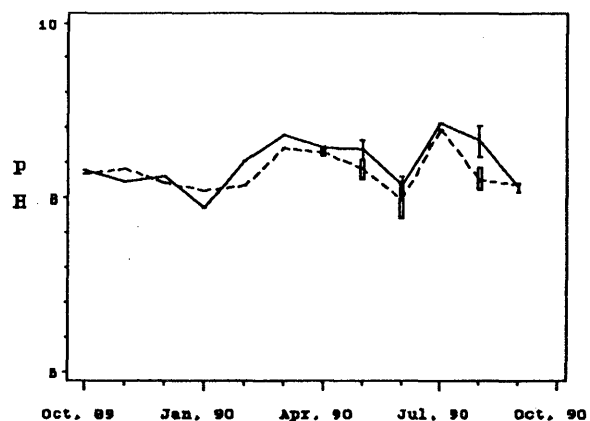
Station Id=EE3.1



Month

— Surface - - - - Bottom

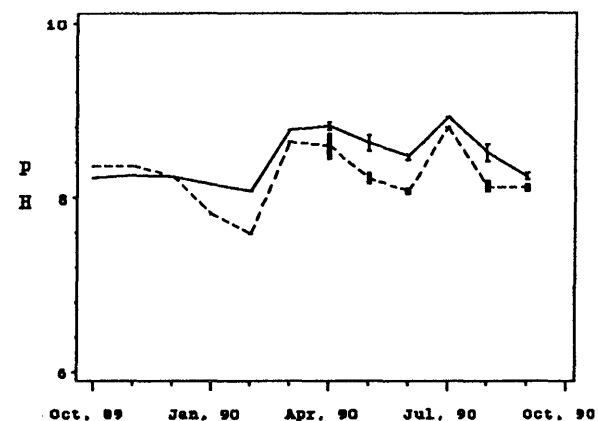
Station Id=EE3.2



Month

— Surface - - - - Bottom

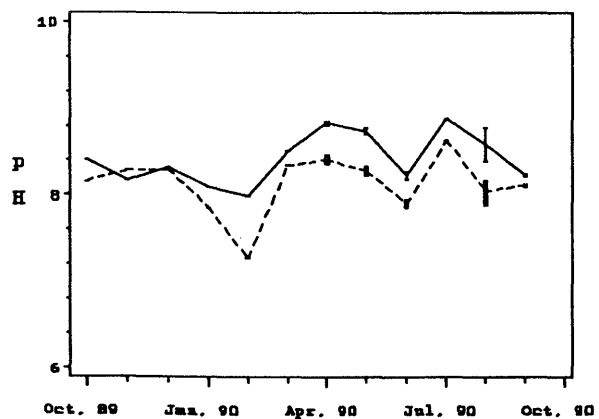
Station Id=CB7.1N



Month

— Surface - - - - Bottom

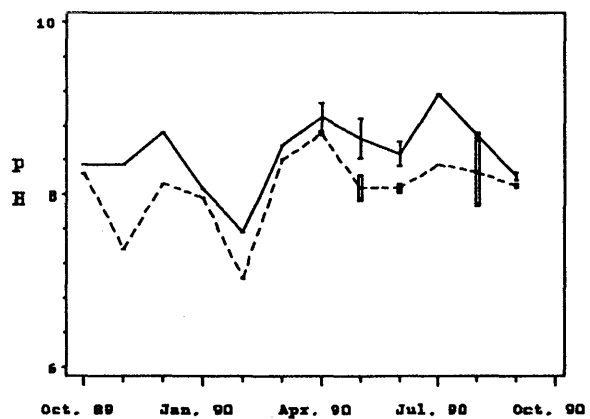
Station Id=CB7.1



Month

— Surface - - - - Bottom

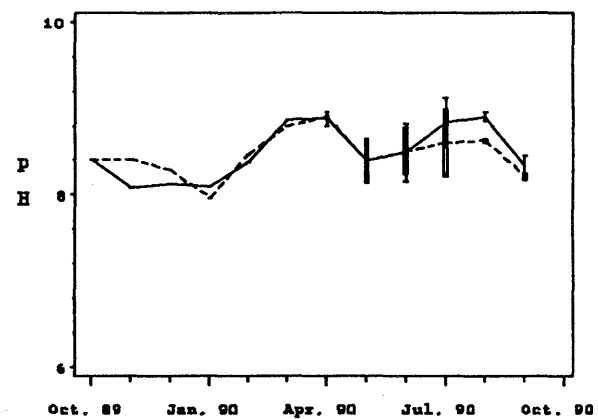
Station Id=CB7.1S



Month

— Surface - - - - Bottom

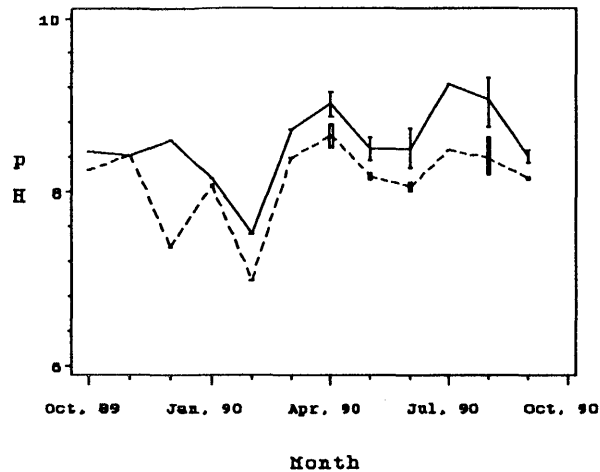
Station Id=CB5.4V



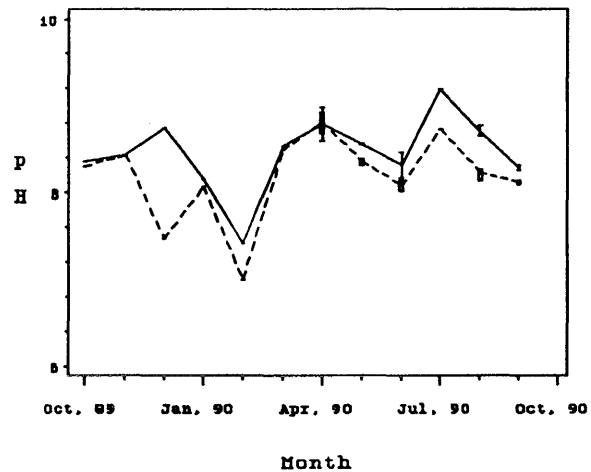
Month

— Surface - - - - Bottom

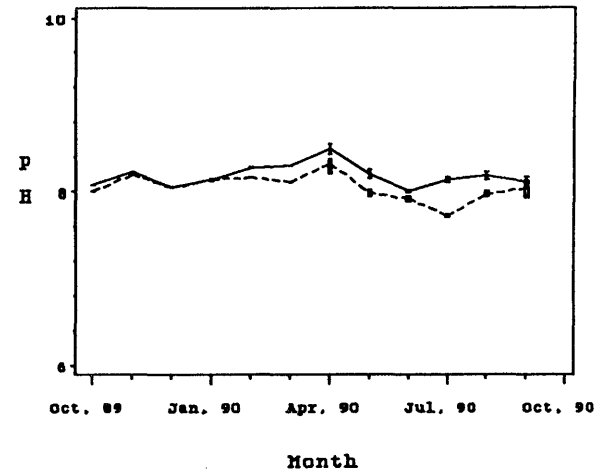
Station Id=CB7.2



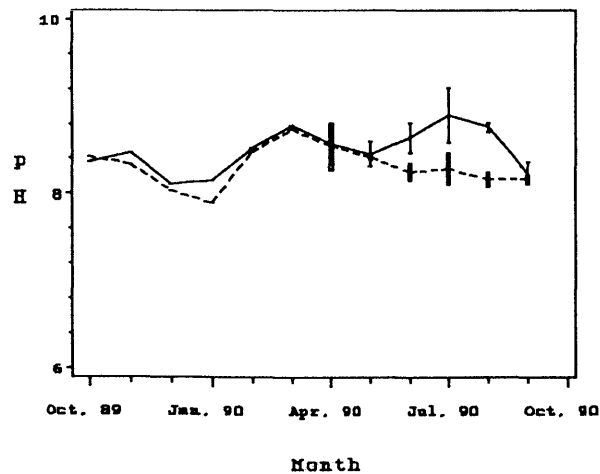
Station Id=CB7.2E



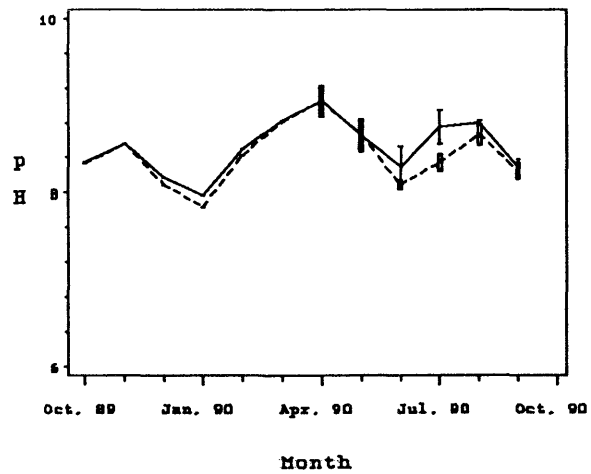
Station Id=CB7.3E



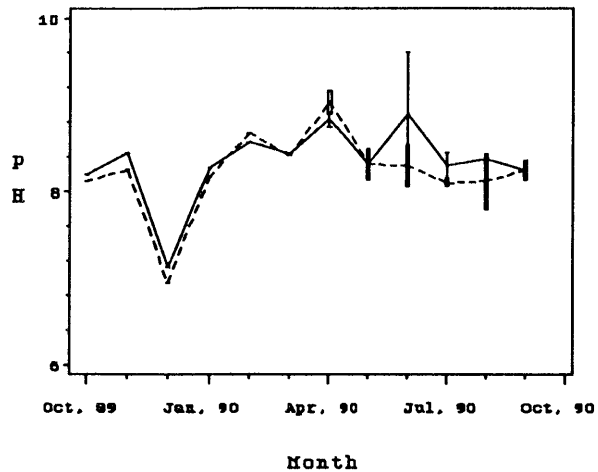
Station Id=LE3.6



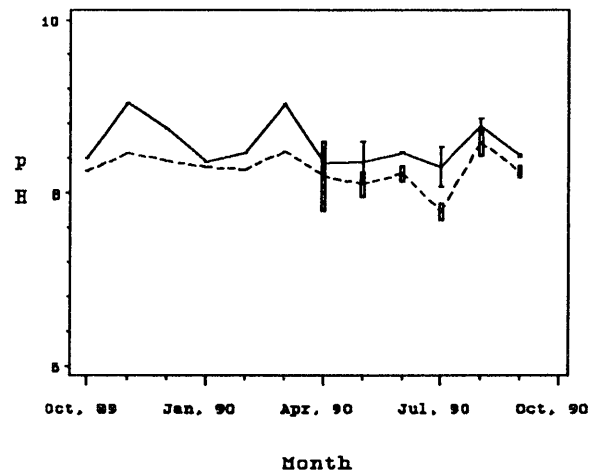
Station Id=LE3.7



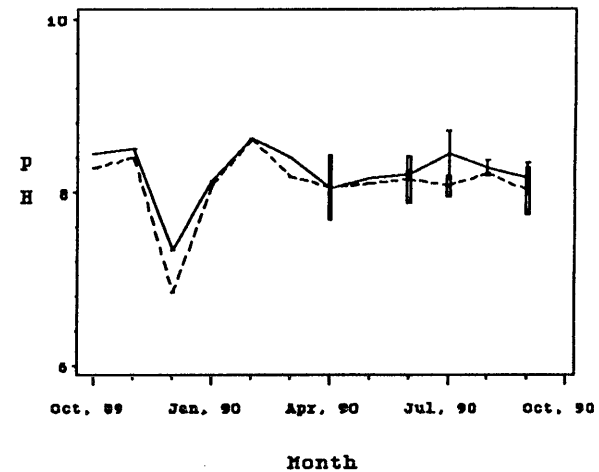
Station Id=WE4.1



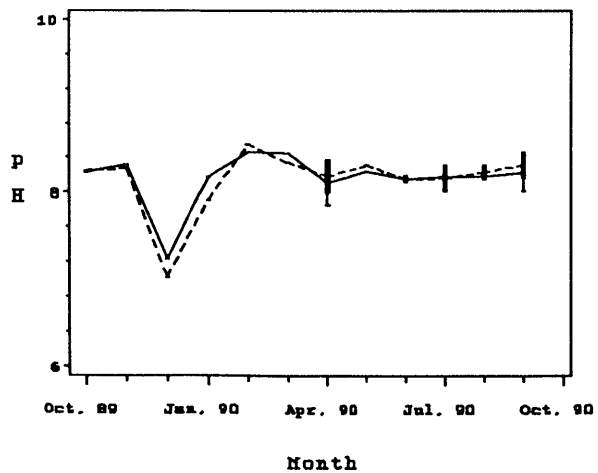
Station Id=WE4.2



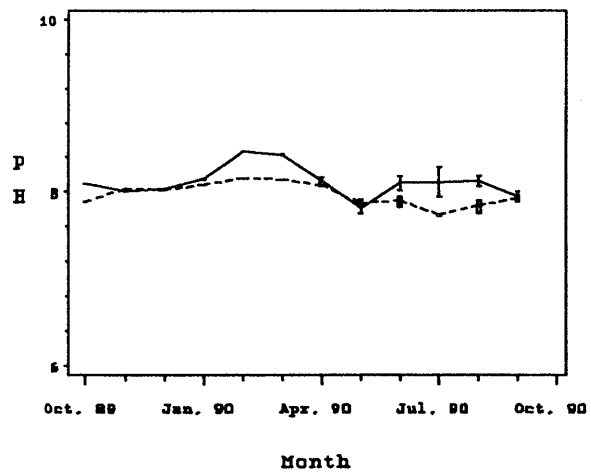
Station Id=WE4.3



Station Id=WE4.4



Station Id=LE5.5



— Surface - - - - Bottom

— Surface - - - - Bottom